



DTCC Reference Guide: Unscheduled Closing Of Exchanges And Markets For Clearing Agencies

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Introduction

DTCC (on behalf of DTC, FICC & NSCC, each a “Clearing Agency” and collectively, the “Clearing Agencies”) has prepared the following guidelines to address processing issues that may arise due to an unscheduled closing of any exchanges, banks and/or markets (“unscheduled closing”) supported by the Clearing Agencies’ products and services.

In the event that an unscheduled closing does occur, DTCC and the Clearing Agencies would work closely with the appropriate regulatory bodies, industry groups, other financial market infrastructures and the Clearing Agencies’ members/participants to employ the steps necessary, taking into account the market conditions and circumstances presented at the time, in order to minimize disruption to the markets.

In the case of an unscheduled closing, which could occur, for example, on a national day of mourning (e.g., the death of a former President), or during an event causing significant regional impact, such as a natural disaster or other similar circumstances, each Clearing Agency expects to continue to process data for clearance and settlement purposes by accepting transactions from any open exchanges, markets, or members/participants, as applicable, as well as the aging and staging of transactions that have already been submitted and accepted by the Clearing Agency for the next steps in the settlement cycle.

During an unscheduled closing, DTCC and the Clearing Agencies would seek to minimize disruptions to the securities industry by continuing a “business as usual” processing routine and conforming as closely as practical to normal operations. Although numerous scenarios could occur in the event of an unscheduled closing, DTCC and the Clearing Agencies intend to adhere to a plan as consistently as possible, depending on the facts and circumstances presented at that time that is readily adaptable by the industry.

DTCC is issuing these guidelines to advise members/participants of the Clearing Agencies’ plan in the event of an unscheduled closing, and to encourage clients to assess the impact of these procedures on their own processes in such an event. Accordingly, DTCC strongly recommends that members/participants examine their internal processing and dependencies and, where feasible, take these guidelines into account in preparation of their own procedures relating to the processing of transactions and related activities.

Questions or comments regarding the topics in this document may be directed to your Relationship Manager.

Unscheduled Closing Procedures

Overview

DTCC and the Clearing Agencies have managed unscheduled closings in the past, including the September 11th attacks, Superstorm Sandy and the days of mourning declared on the deaths of former Presidents Ronald Reagan, Gerald Ford and George H.W. Bush. In each of these cases, the equity and fixed income markets closed while the Fedwire remained open and settlement of trades continued on a normal basis.

The Clearing Agencies’ processes during an unscheduled closing as described in this document assume that markets would be closed but banks and Fedwire services would

remain open. However, members/participants of the Clearing Agencies are reminded that each unscheduled closing could pose unique circumstances and a Clearing Agency's actions may vary depending on the market conditions and circumstances presented at the time.

From time to time, NSCC, FICC, DTC, and their respective members/participants and marketplaces may experience unique processing scenarios. While the assumptions in this document are based on recent precedents for unscheduled closings, DTCC also recognizes that not all situations are identical, and any future scenarios may present market conditions and circumstances that are not covered by the procedures outlined in this document. In those instances, DTCC and the Clearing Agencies would work with the appropriate industry stakeholders to ensure that those conditions and circumstances are addressed and will take the steps the Clearing Agencies deem necessary to communicate the status of each Clearing Agency's processing services to its members/participants.

Members/participants are reminded that there could be minimal lead-time before the date of an unscheduled closing is announced. In the event of an unscheduled closing that results in markets being closed NSCC, FICC and DTC expect to remain open for certain types of processing. The Clearing Agencies would continue normal processing to the extent practical with a view towards minimizing the impact to the industry and providing consistency for their members/participants.

The below summarizes the planned status of general functions, applicable to each of the Clearing Agencies, in the event of an unscheduled closing when markets closed but banks and Fedwire remain open.

Participant Input

Member/participants and marketplaces will not be required to submit empty files to NSCC, FICC and DTC in the event some or all exchanges or markets are closed. Since the Clearing Agencies will continue to run their systems in "business as usual" mode, members/participants may continue to submit prior-day corrections and "as of" transactions as part of their trade capture and reporting processes. The Clearing Agencies also expect to be prepared to accept input in services that are not market-related (e.g., insurance services). Unless otherwise announced by DTCC or the applicable Clearing Agency, all input should be submitted within normally scheduled timeframes, pursuant to the respective rules of the Clearing Agencies.

Participant Output

Since members/participants use the output distributed by the Clearing Agencies to trigger their internal processes, the Clearing Agencies, as appropriate, expect to continue to create and distribute all output as scheduled, allowing members/participants to roll and age existing data "in sync" with the Clearing Agencies. Members/participants are reminded that files related to trade reporting may be empty due to the market closings. Since the Clearing Agencies would be processing data already in the settlement cycle, files containing prior day activity will contain data reflecting updated status.

Unscheduled Closings of Non-U.S. CSD, Exchanges and Markets

From time to time an unscheduled closing of a non-U.S. Central Securities Depository (CSD), exchange or market may occur, while CSD, exchanges and markets in the U.S. remain open. In the event this were to occur, the impacted non-U.S. entities may have a relationship with DTCC or the Clearing Agencies, which may be affected by the closure. In this case, the impacted DTCC entity would work closely with its non-U.S. partner to accommodate the unscheduled closing as to minimize disruption to the non-U.S. market, and the U.S. markets. These efforts would be coordinated and communicated with all appropriate stakeholders including regulators, industry groups, and members/participants so that clearing and settlement can proceed in a "business as

usual” manner.

Communication

The DTCC web site, www.dtcc.com, will contain information relating to the Clearing Agencies’ processing if markets, exchanges, settling banks and Fedwire are subject to an unscheduled closing.

Questions may also be directed to the DTCC Customer Support Center at (888) 382-2721. DTCC Relationship Managers will be available to address any processing issues.

Status of NSCC/ DTC Functions in an Unscheduled Closing

The table below summarizes the status of certain NSCC/DTC functions in the event of an unscheduled closing when markets are closed, but banks and Fedwire remain open. The status of any service or function may vary depending on a determination made by NSCC or DTC at the time, or in anticipation, of an unscheduled closing.

NSCC/ DTC Unscheduled Closing	
Function	Markets Closed Banks/ Fedwire Open
Equity trade Capture & Reporting	<p>Universal Trade Capture (UTC) input will be accepted from any market or exchange that remains open.</p> <p>ETF Creates/Redeems will be not be accepted if exchanges are closed.</p> <p>PCF files for the following trade date will be accepted or ETF Agents/ Sponsors have the choice to allow NSCC to Carry Forward prior days PCF for Standard, Create and Redeem baskets. NSCC does not carry forward Cash or Custom PCF which may be submitted in primary or next day supplemental cycle.</p> <p>Correspondent Clearing input for trades and for corrections from the day prior to the event and older will be accepted.</p>
Equity trade Processing	Aging and adjustment processing will be applied to all new trade data as well as trade data being processed from prior days. When Issued and New Issue trades are extracted for applicable settlement dates.
Trade Processing (CMU only)	<p>When Issued and New Issue trades are extracted for applicable settlement dates.</p> <p>NSCC-eligible fixed income transactions that were previously calculated for the prior business days settlement will not be recalculated.</p>
Obligation warehouse (OW)	OW access, input, and matching will be available.

<p>DTCC Trade Limit Monitoring</p>	<p>Limit Monitoring will be available, but with limited output due to exchange closings.</p>
<p>Trade Netting (Consolidated Trade Summary)</p>	<p>Consistent with normal processing, trades will be netted and reported as positions on the Consolidated Trade Summary.</p> <p>Balance Orders will be issued for non-CNS eligible securities. This same processing will apply to any “as of” trades.</p>
<p>CNS Processing</p>	<p>Consistent with normal processing, the CNS night cycle will run as scheduled. The CNS day cycle will run as normal, and all exemptions and priorities will be applied.</p> <p>In the absence of input, standing instructions will be applied as the normal default.</p> <p>All output will be distributed as scheduled.</p> <p>All corporate actions will be applied consistent with normal processing.</p> <p>Updated CNS positions will be marked-to-market using the prior night’s closing prices, consistent with normal processing.</p> <p>Buy-in processing will continue as normal, keeping in mind that markets may be closed for executions.</p>
<p>CMU Trade Netting (Consolidated Trade Summary)</p>	<p>Consistent with normal processing, trades will be netted and reported as positions on the Consolidated Trade Summary.</p> <p>Balance Orders will be issued for non-CNS eligible securities. This same processing will apply to any “as of” trades.</p>
<p>Cost Basis Reporting Service (CBRS)</p>	<p>Normal processing.</p>
<p>Settlement</p>	<p>All application processing will be included in settlement calculations and current pay/collect procedures will be exercised.</p> <p>All payments will occur per normal procedures and will become part of DTC’s end-of-day settlement.</p> <p>Principal, interest, dividend, and reorganization payments scheduled to be made will be allocated, if funded timely and identified at an event level.</p> <p>DTC will post final figures at the normal processing time and all participants and settling banks will be required to acknowledge credit/debit balances according to normal DTC acknowledgement times.</p>
<p>Institutional Deliveries (ID)</p>	<p>Consistent with normal processing, DTC will accept trades from ITP and IMS.</p> <p>All output will be distributed as scheduled. ID Net processing will remain unchanged.</p>
<p>Settlement Transactional Input</p>	<p>All valued deliveries, Securities Payment Orders (SPOs), pledges/releases, and free Money Market Instrument (MMI) deliveries will process normally.</p> <p>Unapproved valued RAD transactions will be dropped from the system at the normal RAD approval cut-off period.</p>

Money Market Instruments	Normal processing for MMI maturity presentments, Periodic Interest Payments (PIPs) and Periodic Principal Payments (PPPs).
Corporate Actions	<p>Issuer Services including all Proxy and LENS services will be available.</p> <p>(Announcements will be processed and Cash & Stock allocations (Distributions and Redemptions) will be processed, if funded.</p> <p>Announcements will be processed and Reorg (Mandatory and Voluntary) Cash & Stock allocations will be processed, if funded. The DTC Rights and Warrant platforms will be open.</p> <p>IVORS and CMOP will be disabled for the day.</p> <p>Processing Change: Interim Accounting for an Ex-Date Change Due to Unscheduled Closing of a Stock Exchange</p> <p>During an unscheduled closing, a listed exchange will typically move ex-dates that were scheduled for that date to the next business day that the exchange is open, which is usually the record date. Such a move is necessary because, according to exchange rules, ex-dates must occur on a business day that the listed exchange is open. Because no trading is expected in the impacted securities on the date the listed exchange is closed, there should not be any due bill activity that needs to be tracked. Thus, DTC will not capture interim activity for the related period.</p> <p>Note:</p> <p>Updates and changes to critical information (e.g., Record Dates/Ex-dates/Payable Dates/Effective Dates/Expiration Dates, etc.) resulting from an unscheduled closing will be provided to participants based on information received from issuers, agents and/or exchanges. Participants are advised to monitor CA Web and other Corporate Action Information sources to ensure that their internal records are accurate.</p>
Physical Deliveries (Envelope Processing)	Normal processing for all Envelope Settlement Services (ESS). New York Window (NYW) will be open.
Automated Customer Account Transfer Service (ACATS) Processing	<p>The ACATS system will run as normal including the aging of prior activity and the interfaces with CNS, Fund/SERV, IPS and settlement.</p> <p>All output will be distributed as scheduled.</p>
Mutual Funds Processing	<p>Normal processing for Networking, Profile I and II, Payment aXis, MF Info Xchange and Fund/SERV, including the confirmation and aging of prior transactions and the interfaces with ACATS and settlement.</p> <p>All output will be distributed as scheduled.</p>
Alternative Investment Products	<p>Normal processing for AIP, including the confirmation and aging of prior transactions and the interfaces with settlement.</p> <p>All output will be distributed as scheduled.</p>
Insurance & Retirement Services (I&RS) Processing	<p>Normal processing for the I&RS systems, including the aging of prior activity and the interfaces with ACATS and settlement.</p> <p>All input will be accepted and processed, and all output will be distributed as scheduled.</p>

Canadian Link Processing	Canadian Dollar services will run as normal, including current interfaces and the processing of input and output.
IPOs & Underwritings	Normal processing for new issue eligibility submissions from underwriters and their correspondents (via UWSOURCE, the Underwriting web application). Normal processing for new issue closing process
Physical and Electronic Deposits - Withdrawals (DTC) and Custody	Normal processing.
CMU Regulatory Interfaces (MSRB)	All submissions will be made available via the regulatory interface to MSRB.
Risk Management	Normal risk management procedures will apply, including start of day and intraday margin collections, and, where applicable, liquidity deposits. Members should be prepared to fund all required margin and Supplemental Liquidity deposits.
Securities Financing Transaction Service (SFT)	Consistent with normal processing, the SFT Service will run as scheduled. In the absence of input, standing instructions will be applied as the normal default. All output will be distributed as scheduled. All eligible corporate actions will be applied consistent with normal processing.

Status FICC-GSD Functions in an Unscheduled Closing

The table below summarizes the expected status of certain FICC-GSD functions in the event of an unscheduled closing when markets are closed but banks and Fedwire remain open. The status of any service or function may vary depending on a determination made by FICC at the time, or in anticipation, of an unscheduled closing.

FICC-GSD Unscheduled Closing	
Function	Markets Closed Banks/Fedwire Open
GSD Trade Processing (Capture, Matching & Reporting) & Auctions	<p>All DVP trade processing will be available (trade input, trade matching, messaging, and reporting).</p> <p>Auction trades and files received from the Federal Reserve Bank will be processed.</p> <p>Eligible Same-Day Settling Transactions will process and settle BAU.</p> <p>All reports, files and messaging output will be created and distributed as scheduled, even if the files are empty.</p>
GSD Trade Netting & Settlement Obligations Reports/MRO	<p>Netting will run as scheduled.</p> <p>Netting output (including Securities Settlement Obligations) will be generated and distributed as scheduled.</p>
GSD Funds Only Settlement	<p>Funds-Only Settlement will proceed normally for both intraday and end-of-day settlement cycles since banks are open for money transfers.</p>
GSD Settlement of Receive and Deliver Obligations (includes auction obligations)	<p>Settlement of obligations will proceed normally since the Fed Book Entry System is available.</p>
GSD Risk Management	<p>Normal risk management procedures will apply. This includes the calculation of clearing fund requirements and the enforcement/collection of clearing fund deficits for both the intraday and end-of-day margin cycles.</p>
GSD Fails to Receive and Deliver & TMPG Charges	<p>Fails are captured and renetted. TMPG charges will be applied to all failed obligations.</p>
GSD Repo Substitutions	<p>Substitution notification requests will be accepted.</p>

GSD Cross Margining	Cross margining will occur if data is available from the CME.
GCF Repo[®] Settlement	GCF Repo transactions processing (matching, netting, reporting, file transmissions to the GCF Clearing Agent Bank, collateral and cash allocations and settlements) will occur as normal.
GCF Repo Index[®]	The GCF Repo Index will occur as normal.
GSD Member Onboarding	All new members will be activated upon effective date.

Status of FICC-MBSD Functions in an Unscheduled Closing

The table below summarizes the status of certain FICC-MBSD functions in the event of an unscheduled closing when markets are closed but banks and Fedwire remain open. The status of any service or function may vary depending on a determination made by FICC at the time, or in anticipation, of an unscheduling closing.

FICC-MBSD UNSCHEDULED CLOSING	
Function	Markets Closed Banks/Fedwire Open
MBSD Trade Processing (Capture, Matching & Reporting)	All trade processing will be available (trade input, trade matching, and messaging). All reports, files and message output will be created and distributed as scheduled, even if the files are empty.
MBSD TBA & Pool Trade Netting & Pool Conversion	TBA obligations generated by the netting process will be created on the designated SIFMA netting days (A, B, C, and D). Pool Net and Pool Conversion will run as scheduled. Pool obligations scheduled for deliver on that day may settle as usual.
MBSD Funds Only Settlement	Settlement of cash obligation items will proceed normally.
MBSD Settlement of Receive and Deliver Obligations (RVP/DVP)	Settlement of obligations will proceed normally since the Fed Book Entry System is available.

MBSD Do Not Allocate, TBA Reprice, and Expanded Pool Net	The Do Not Allocate (DNA), TBA Reprice, and Expanded Pool Net will run as scheduled on SIFMA 24-hour day.
MBSD Electronic Pool Notification (EPN)	EPN is available for message processing.
MBSD Pool Substitutions	Substitution requests will be accepted.
MBSD TMPG Charges	TMPG charges will be applied to all failed obligations.
MBSD Settlement Obligations Reporting	Settlement processing reports / MROs generated by the netting function will be distributed as scheduled.
MBSD Risk Management	Normal risk management procedures will apply. This includes the calculation of clearing fund requirements and the enforcement/collection of clearing fund deficits for daily margin requirements as well as any potential intraday margin calls.
MBSD Member Onboarding	All new members will be activated upon effective date.

If members/participants or other stakeholders have any questions regarding these procedures, or require additional information or details, please contact your Relationship Manager.