ITP Services Catalog

OFFERED SUBJECT TO MSA AND APPLICABLE ANCILLARY DOCUMENTS

AS OF March 13, 2025

ITP SERVICE	ACCESS METHODS	OPTIONAL WORKFLOWS	ADD-ON / ANCILLARY SERVICES
CTM® CTM is a central matching platform used by end-user clients to allocate and centrally match transactions globally across multiple asset classes. CTM automates the trade confirmation process, including the option to enrich confirms with disclosures via inSITE (additional subscription). CTM also facilitates matching and straight-through processing by offering workflows where end-user clients provide their own Standing Settlement Instructions (SSIs), or enable SSI enrichment. CTM automatically provides access to ITP Data Analytics Operational Metrics (including a "T+1 Scorecard") and Trade Archive and includes the option to access Confirm Archive. A DTCC ITP end-user client can subscribe to CTM as a standalone service; additional functionality described may require additional subscription documentation.	**BROKER / INVESTMENT MANAGER** API, File, FIX, UI **BROKER / INVESTMENT MANAGER VIA 3RD PARTY (OUTSOURCER, STP PARTNER)** API, File, FIX, UI	• Match to Instruct (M2i) • CTM for Prime Broker • ALERT SSI Enrichment - ALERT Keys, ALERT Key Auto Select (AKAS) • Confirm Archive	• Settlement Instruction Manager • inSITE • ITP Data Analytics Benchmarking
TRADESUITE ID® TradeSuite ID automates the electronic distribution of trade details between counterparties for post-trade processing of DTC-eligible securities to facilitate electronic settlement and end-users' regulatory compliance, including the option to enrich confirms with disclosures via inSITE (additional subscription). TradeSuite ID also includes a matching functionality via the TradeMatch module of the system. Depending on subscription type, TradeSuite ID automatically provides access to ITP Data Analytics Operational Metrics (including a "T+1 Scorecard") and includes the option to access archival services (Confirm Archive, Trade Archive). A DTCC ITP end-user client can subscribe to TradeSuite ID as a standalone service; additional functionality described may require additional subscription documentation.	**BROKER / INVESTMENT MANAGER / CUSTODIAN** UI (TradeSuite ID Web, TradeSuite ID Limited, Participant Browser System (Broker / Custodians Only)), API, TradeHub (IMs / Custodians Only), SWIFT **BROKER / INVESTMENT MANAGER / CUSTODIAN VIA 3RD PARTY (OUTSOURCER, STP PARTNER)** UI (TradeSuite ID Web, TradeSuite ID Limited), API, TradeHub (IMs / Custodians Only)	• Confirm Archive	• inSITE
ALERT® ALERT is an online global database for the maintenance and communication of accounts and SSIs, available to end-user clients such as investment managers, investment manager outsourcers, brokers-dealers and custodian banks, who either input accounts and/or SSIs into ALERT or retrieve account and/or SSI data from ALERT. End-user clients can retrieve account-specific SSIs in real-time and confirm account-specific SSI availability in support of timely transaction settlement. End-user clients may also subscribe to SSI enrichment workflows for their use of CTM; additional functionality described may require additional subscription documentation.	**SSI INPUT** **CUSTODIAN / PRIME BROKER** UI, (Global Custodian Direct (GCD), Global Custodian Web, Regional Custodian Web, Prime Broker with Liftout (via DTCC Global Service Bureau (GSB)), API (GCD) **INVESTMENT MANAGER / OUTSOURCER** UI, IM or IMO ALERT Plus, IM SSI Liftout (via GSB), IM Outsourcer SSI Liftout (via GSB)) **SSI RETRIEVAL** **INVESTMENT MANAGER / OUTSOURCER** UI, API **BROKER** UI, API OR via a 3RD PARTY (STP PARTNER / VENDOR) — API **ACCOUNT-SPECIFIC SSI AVAILABILITY** **INVESTMENT MANAGER / OUTSOURCER** UI, API **BROKER**— UI **STP PARTNER / VENDOR** — API	N/A	N/A

DTCC

Additional ITP Services

ITP INTEGRATION BUSINESS SERVICES

ITP Integration Business Services are used for CTM, TradeSuite ID and ALERT, as applicable. They consist of professional services and support agreed upon by end-user client and DTCC ITP in a statement of work.

NON-CLIENT SET-UPS

At times, DTCC ITP may offer certain functionality at no cost, on a limited basis, to non-Clients. This additional functionality ("Non-Client Set-Ups") may: (i) support DTCC ITP Client operations; (ii) facilitate STP; or (iii) ease the onboarding to or increase the adoption / usage of DTCC ITP Client Services.

Entities who use Non-Client Set-Ups do not receive access to DTCC ITP systems, do not receive support services, and do not complete the standard DTCC ITP Client onboarding process. Requirements for entities using any DTCC ITP Non-Client Set-Ups are set forth in the DTCC Learning Center.

TradeSuite ID Number "ID Only"

TradeSuite ID Number ("ID Only") is for non-self-affirming institutions. Certain institutions rely on their custodian to affirm their transactions in TradeSuite ID but are not identified in TradeSuite ID as the "institution" because their custodians affirm on their behalf. Non-Clients will not be able to use the TradeSuite ID Number to affirm trades or to access other Client Services (including but not limited to archival services).

ASSIsT

ASSIsT is for institutions and IMOs to provide them with an alternative mechanism to communicate account and settlement instructions to broker-dealers. The ASSIsT service enables these institutions and IMOs to utilize the DTCC Global Service Bureau to input and maintain their account and settlement instructions on the institution or IMOs behalf within the ALERT platform and to then permission access to the entity's broker-dealers of choice. These institutions and IMOs do not have access to the ALERT platform but can request a copy of their SSIs at any time.

DEFINITIONS:

ACCESS METHOD – The manner or method by which a Client accesses the Services, which may differ depending on Client's technology configuration, Client's entity type, and operational and technological setup.

- **API** – An application programming interface for direct connectivity to the Service.
- **UI** – A user interface for web-based use of a Service.

OPTIONAL WORKFLOW – Additional workflows within a Service that Client may elect and sign up for, from time to time.

ADD-ON / ANCILLARY SERVICE – Additional Services that Client may elect and sign up for, from time to time

ITP Services Catalog Supplement

As of March 2025

To provide more detail in addition to the ITP Services Catalog, this document describes ITP Services ("Services"), which ITP provides to its clients. This document includes detail beyond the ITP Services Catalog, in the form of: (1) Service Descriptions, (2) Subscription Options by Client type and Access Method, (3) System Functionality, (4) Risks associated with Service disruptions, and (5) information concerning Optional Workflows, and Add-on / Ancillary Services detailed in the ITP Services Catalog.

Clients

ITP's clients include a broad array of securities market participants, including investment managers, investment manager outsourcers ("IMOs"), hedge funds, and other institutions (all, "institutions"); broker-dealers including brokers acting as clearing brokers, brokers acting as agents or correspondents for other brokers, and traditional executing brokers; custodians (including Global Custodians and Regional Custodians), as well as brokers who are acting in the capacity as custodians by providing prime brokerage services to their underlying clients; and agents, including certain parties who may not have an active role in post-trade processing but may have an interest in, or need access to the services for the administration of the allocation, confirmation, matching, and/or allocation process (collectively, "Clients"). The Services support post-trade allocation, confirmation, matching, and affirmation of securities transactions executed by broker-dealers and institutions.

Services

The Services consist of three core services and certain optional workflows and add-on or ancillary services. The three core services are CTM (a post-trade matching service), TradeSuite ID (primarily a confirmation and affirmation service), and ALERT (a global database of securities, cash and collateral standing settlement instructions).

The Services include underlined additional functionality, depending on the subscription type (Confirm Archive, Trade Archive[1,] and ITP Data Analytics Operational Metrics). The optional workflows are Match to Instruct ("M2i") (a matching service that automates affirmation), CTM for Prime Broker (a use case that provides prime brokers information about the matching status for trades that such prime broker will eventually have to settle), ALERT Standing Settlement Instruction ("SSI") Enrichment and Confirm Archive (for both CTM and TradeSuite ID); these are optional, additional workflows within a Client Service that may optimize or bring further efficiencies to existing Client Service(s) functionality. Additional documentation and/or fees may apply. The add-on or ancillary services are Settlement Instruction Manager, inSITE (a confirmation disclosure service for both CTM and TradeSuite ID), and ITP Data Analytics Benchmarking; these are not stand-alone services and additional documentation and/or fees may apply. ITP also offers one non-core service: ITP Integration Business Services (which assists Clients in implementation of the Services).

Core Services, Included Functionality, Optional Workflows, and Add-On or Ancillary Services

The following table shows the core services and the applicable included functionality, optional workflows, and add-on or ancillary services. The remainder of document provides detailed descriptions of the Services, including descriptions of system functionality, how Clients of different types use the Services, workflow diagrams, the role of add-on or ancillary services, descriptions of the non-core services, and a description of risks related to such services.

DTCC

Core Services (and included functionality)	Optional Workflows	Add-on or Ancillary Services
CTM *Confirm Archive, Trade Archive, ITP Data Analytics Operational Metrics*	M2i, CTM for Prime Broker, ALERT SSI Enrichment (ALERT Keys, ALERT Key Auto Select (AKAS)), and Confirm Archive	Settlement Instruction Manager, inSITE, and ITP Data Analytics Benchmarking
TradeSuite ID *Confirm Archive, Trade Archive, ITP Data Analytics Operational Metrics[2]*	Confirm Archive	inSITE
ALERT	N/A	N/A

ITP Services Catalog

The ITP Services Catalog includes details on Client connectivity and access configurations (which may differ depending on Client type), as well as service functionality, and optional workflows or add-on services which are available for Clients.

The ITP Services Catalog also describes certain non-Client functionality ("Non-Client Set-ups"), and which ITP offers at no cost, on a limited basis, to non-Clients. These Non-Client Set-ups may: (i) support Client operations; (ii) facilitate STP; or (iii) ease the onboarding to or increase the adoption / usage of Services. Entities who use Non-Client Set-Ups do not receive access to ITP systems, do not receive support services, and do not complete the standard Client onboarding process. Requirements for entities using any DTCC ITP Non-Client Set-Ups are set forth in the relevant Procedures.

---

[2] The availability of the additional functionality noted in italics depends on the Client's subscription type. Please see *Additional Subscription Details for Institutions* in TradeSuite ID Section 3.c.

DTCC

1. ALERT

1.a. Service Description

The ALERT core service is a global database supporting the input, maintenance, and retrieval of accounts (which maintain the underlying reference data points such as tax identifiers, country of domicile, Legal Entity Identifiers, and other data points used in addition to SSIs) available to Clients, including institutions, IMOs, executing brokers, prime brokers, and custodians, that either input accounts and/or SSI data into ALERT or retrieve account and/or SSI data from ALERT. The ability to access the SSI data from ALERT also enables Clients to confirm available SSIs and whether accounts are ready for settlement. ALERT Clients may also subscribe to SSI enrichment workflows for their use of CTM (see below in discussion of ALERT SSI Enrichment in CTM). The ability to access ALERT SSI data is via the DTCC ALERT UI or via application program interface ("API").

Table 2: ALERT Subscriptions by Client Type

Client Service	Access Type	Additional Client Service Components	Access Method	Client Type			
				Broker	Institution / IMO	Custodian	Prime Broker
ALERT	SSI Input	Global Custodian Direct (GCD)	UI	N	N	Y	N
		Global Custodian Web		N	N	Y	N
		Regional Custodian Web		N	N	Y	N
		Prime Broker with Liftout		N	N	N	Y
		UI (ALERT Core Service)		Y	Y	N	N
		IM/IMO Alert Plus		N	Y	N	N
		IM SSI Liftout		N	Y	N	N
		IMO SSI Liftout		N	Y	N	N
		Global Custodian Direct (GCD)	API	N	N	Y	N
	SSI Retrieval	UI (ALERT Core Service)	UI	Y	Y	N	N
		API (Broker Direct)	API	Y	N	N	N
		API (Broker Direct) via a 3rd Party (STP Partner / Vendor)	API	Y	N	N	N
		API (Real Time Settlement Instruction)	API	N	Y	N	N
	Account Specific SSI Availability	UI (ALERT Core Service)	UI	Y	Y	N	N
		API (Ready to Settle)	API	N	Y	N	N
		API (Ready to Settle) - via STP Partner / Vendor	API	Y	Y	N	N

1.b. System Functionality (by Role)

SSIs can be input, maintained, retrieved, and updated by Clients in ALERT's database and used for enriching trades in CTM. The database validates new SSI data entered against rules aligned with industry standards as well as data sources, when possible, to seek to achieve accurate settlement instructions. When Clients that are institutions input SSIs, they have the ability in ALERT to permission access to their accounts and SSIs to their broker-dealers for SSI retrieval.

1.b.i ALERT for Institutions, IMOs, and Hedge Funds

The ALERT core service allows institutions to establish or edit accounts and input and maintain the SSIs associated with those accounts. Clients may link accounts to a set of existing SSIs they have created using models, or SSI maintenance may be handled by Global Custodians, Regional Custodians, or prime brokers

by both the web service as well as by API (Global Custodian Direct), for those that are enabled. Account access can be restricted (via permissioning within ALERT) to only those broker-dealers with whom a Client actively trades, and the institutions' permissioned broker-dealers are notified of SSI changes by the electronic alerting process within ALERT. Institutions can also retrieve broker-dealer SSIs or access their own or Global Custodian Direct managed SSIs online via the UI or via an API when needed. Broker-dealers may also periodically provide inputs to ALERT, when new broker-dealers are added or when they make significant updates.

SSI Input Methods:

ALERT Core Service: The ALERT core service, via the UI, supports the input and retrieval of accounts and SSIs, in addition to account-specific SSI availability, in support of institutions and IMOs.

IM/IMO ALERT Plus: IM/IMO ALERT Plus provides additional functionality which enables institutions to input, via file upload, multiple SSIs at one time when using the UI access method.

ALERT IM SSI Liftout: ALERT IM SSI Liftout provides an alternative option for institutions looking to use the ALERT platform for the communication and input of their account and settlement instructions. The ALERT IM SSI Liftout service enables institutions to utilize DTCC Global Service Bureau, which is a team of personnel within DTCC that provides operational support for Clients, to input and maintain instructions within the ALERT platform, helping to streamline internal workflows/processes.

ALERT IMO SSI Liftout: ALERT IMO SSI Liftout provides an alternative option for IMOs looking to use the ALERT platform for the communication and input of their account and settlement instructions. The ALERT IMO SSI Liftout service enables Clients to utilize DTCC Global Service Bureau to input and maintain instructions within the ALERT platform, helping to streamline internal workflows/processes.

SSI Retrieval:

ALERT Core Service: The ALERT core service, via the UI, supports the input and retrieval of accounts and SSIs in support of institutions and IMOs.

Real Time Settlement Instruction: Institutions and IMOs can pull/retrieve an individual SSI for their own specific account, market, security, depository SSI, and/or their broker-dealers' specific model, market, security, depository SSI in real time.

Account-Specific SSI Availability:

ALERT Core Service: The ALERT core service, via the UI, supports account-specific SSI availability in support of institutions and IMOs.

Ready to Settle (for institution/IMO): In support of Client onboarding, institutions and IMOs can obtain a list of available market, security, and depository combinations per account at the institution.

Ready to Settle (for Client Onboarding Vendor): In support of Client onboarding, on behalf of institutions and IMOs, the Client Onboarding Vendor can obtain a list of available market, security, and depository combinations per account at the institution.

<u>1.b.ii. ALERT for Broker-Dealers</u>

The ALERT core service facilitates the communication of a wide range of settlement instructions to broker-dealer Clients that receive updates to settlement instructions from the institutions, or the middle office outsourcer that represents the institution or hedge fund. This communication is done via an electronic ALERT notification process within ALERT.

SSI Retrieval:

ALERT Core Service: The ALERT core service, via the UI, supports the retrieval of accounts, SSIs, account specific SSI availability, and ALERT notifications regarding updated settlement instructions by institutions.

Broker Direct (for broker-dealer): Broker Direct provides broker-dealers the ability to electronically receive ALERT notifications via API regarding settlement instructions updated by institutions.

Broker Direct (for vendor): Broker Direct provides broker-dealers' third-party vendors the ability to electronically receive ALERT notifications via API regarding settlement instructions updated by institutions.

Account-Specific SSI Availability:

ALERT Core Service: The ALERT core service, via the UI, supports account-specific SSI availability, in support of broker-dealers.

Ready to Settle: In support of Client onboarding, on behalf of the broker-dealer, the Client Onboarding Vendor can obtain a list of available market, security, and depository combinations per account at the institution.

1.b.iii. ALERT for Custodian Banks including Regional Custodians and Prime Brokers

Custodian banks, including Regional Custodians and prime brokers, can input and manage settlement instructions through ALERT on behalf of institutions. This additional custodian and prime broker input and access enables them to become the owner and maintainer of SSIs through both the ALERT web service and API (Global Custodian Direct).

SSI Input Methods:

Global Custodian Direct: The Global Custodian Direct workflow automates the input of SSIs between a custodian's central repository and the ALERT host via API. This enables the Global Custodian to become the owner and maintainer of the SSI data subject to systematic access controls.

Global Custodian Web: The Global Custodian Web workflow automates the input of SSIs between a custodian's central repository and the ALERT host via UI input and bulk upload using a standard SSI template. This enables the Global Custodian to become the owner and maintainer of the SSI data subject to systematic access controls.

Regional Custodian Web: The Regional Custodian Web workflow automates the input of SSIs between a custodian's central repository and the ALERT host via UI input and bulk upload using a standard SSI template. This enables the Regional Custodian to become the owner and maintainer of the SSI data subject to systematic access controls.

Prime Broker Web: The Prime Broker Web workflow automates the input of SSIs between a prime broker's central repository and the ALERT host via UI input and bulk upload using a standard SSI template. This enables the prime broker to become the owner and maintainer of the SSI data subject to systematic access controls.

1.c. Non-Client Set up: ASSiST for Institutions and IMOs

ASSIsT is for certain institutions and IMOs to provide them with an alternative mechanism to communicate account and settlement instructions to broker-dealers. The ASSIsT service enables these institutions and IMOs to utilize the DTCC Global Service Bureau to input and maintain their account and settlement instructions on the institution or IMOs behalf within the ALERT platform and to then permission access to

the entity's broker-dealers of choice. These institutions and IMOs do not have access to the ALERT platform but can request a copy of their SSIs.

1.d. ALERT Risk of Service Disruption

If ALERT experiences a service disruption:

-   Existing Clients that enrich their transactions through CTM may enrich from the current replicated SSIs. The Client will not be able to update their SSI data in ALERT during the service disruption. New Clients cannot upload their SSI into ALERT during the service disruption.

Clients will not be able to retrieve Client-specific SSI or ALERT notifications to maintain their own in-house SSI repositories.

DTCC

1.d. Workflow Diagram of ALERT
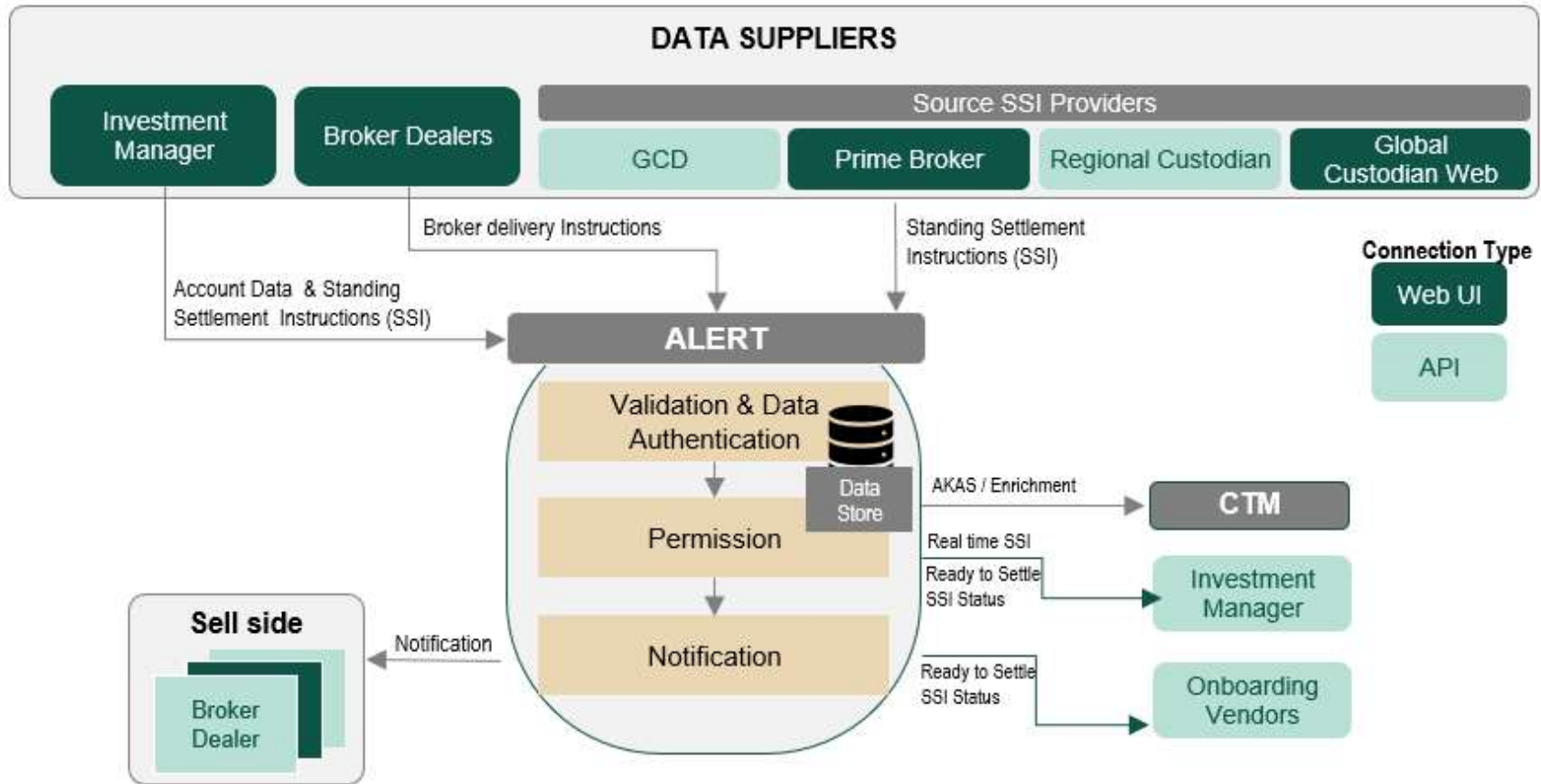
2. CTM

2.a. Service Description

CTM is a central matching platform used by Clients to allocate and centrally match securities transactions post-trade. CTM offers certain optional workflows and ancillary services. First, as an alternative to broker-dealers entering confirmation disclosures on a trade-by-trade basis, CTM offers an add-on, inSITE, which stores confirmation disclosures in conjunction with broker-dealers' use of TradeSuite ID or CTM. In addition, CTM offers Settlement Instruction Manager, which gives the institution the ability to automatically generate and send settlement instructions to custodians. CTM also has optional workflows: (1) M2i, which uses CTM, TradeSuite ID, and ALERT together; (2) CTM for Prime Broker, which enables prime brokers to see trade and match status for trades they will eventually have to settle; and (3) ALERT SSI Enrichment, which enables SSI enrichment into CTM. CTM includes the option to access archival services (Confirm Archive) and automatically provides access to ITP Data Analytics Operational Metrics (including a "T+1 Scorecard"), and Data Analytics Benchmarking. A Client may subscribe to CTM as a standalone service and is not required to subscribe to any other Client Service to subscribe to CTM.

2.b. Subscription Options by Client Type

Table 3: CTM Subscriptions by Client Type

Client Service	Optional Workflows/ Ancillary Services	Access Method	Client Type			
			Broker-Dealer	Institution / IMO	Custodian	Prime Broker
CTM	Core Service (Matching)*	API, FIX, File, UI				
	M2i		Y	Y	N	N
	CTM for Prime Broker		Y	Y	N	Y
	ALERT SSI Enrichment		Y	Y	N	Y
	Settlement Instruction Manager		N	Y	N	N
	inSITE		Y	N	N	Y
	ITP Data Analytics: Benchmarking		Y	Y	N	N

* Includes Archival Services and ITP Data Analytics Operational Metrics.

2.c. System Functionality – (Core Service - Matching)

In CTM, one Client is classified as a broker-dealer in the CTM system, and the other Client is classified as an institution in the CTM system.[3] The Client classified as the institution in CTM is the entity that is "instructing," and the Client classified as a broker-dealer is "confirming." Each Client enters the trade's block and allocation data into CTM, which CTM compares and matches. CTM matches based on both mandatory and optional trade data. Clients may choose among various access methods to CTM, including API, financial information exchange ("FIX"), CSV File upload, or a UI provided to Clients by ITP. If CTM determines that all mandatory and optional trade data matches, CTM sends a status message to each Client that is a party to the trade and generates block and allocation matched status messages to update each party to the trade. If data submitted by the Clients does not match for the mandatory and select optional matching fields, an exception occurs. If an exception occurs, CTM automatically sends each party to the trade a notification message that provides the matching status and provides each party to the trade the ability to identify and correct the trade. Once the trade matches in CTM, CTM automatically sends

---

[3] With respect to the Services generally, these classifications typically align with the Client's regulatory and/or organizational status. Clients provide information to ITP at client onboarding which is used to establish their classification. For certain use cases, a broker-dealer may participate in CTM as an institution.

DTCC

messages to the parties to the trade. The parties to the trade would then settle the trade outside of CTM. CTM does not stage trades for settlement and does not communicate matched trades to any clearing agency for settlement.

The CTM system uses a two-level matching process to match both block (called "TradeLevel" in the CTM system) and allocation (called "TradeDetail" in the CTM system) messages. Once a trade is matched at the block and the allocation level, it is considered "match agreed." CTM refers to match-agreed trades with the acronym MAGR.

- *Level 1 (L1)* matching (also referred to as pairing) identifies the mandatory fields of the trade, including: buy/sell indicator, executing broker, instructing party, quantity, security code, trade date/time, account ID allocation stepped out (conditional), quantity allocated (conditional), and all L1 components must pair exactly before proceeding to Level 2 (L2) matching.
- *Level 2 (L2)* matching is designed to confirm that selected fields meet the matching requirements set by the Client labelled as the "institution" in CTM. Some of the L2 match fields include: price, party capacity, commissions, place of settlement, charges and taxes, research commission, settlement transaction condition indicatory, settlement amount, trade amount, maturity date (debt), and place of trade.

L2 matching profiles are set up by the Client labelled as the "institution" in CTM, which establishes optional matching rules based on its internal business requirements. Matching profiles must be set up by asset class. L2 matching may be exact, or the institution may apply a deviation tolerance.

CTM requires institutions and broker-dealers to submit certain Mandatory, Optional, and Conditional L1 Block fields in order to pair block sides with each other. Once L1 Block fields are paired, the institution's allocations are released to the broker-dealer, indicating how the institution wants the block to be allocated. The broker-dealer consumes the allocation breakdown with the account ID information and other details indicated. Provided the broker-dealer recognizes the account ID (this is the only mandatory L1 allocation field), the broker-dealer submits the confirmations into CTM for pairing with the institution's allocations. Once the allocations have paired with the broker-dealer confirmations, the L2 matching process is invoked, using the match profile that has been established by the institution. At that point, the L2 matching process is applied to both optional block and allocation level fields. Provided all of the optional L2 matching fields at the block and allocation level are agreed upon or within tolerance, the trade reaches a match agreed state.

Institutions and broker-dealers may also agree to cancel a trade in CTM through a process known as "cancel match agreed." Cancel match agreed is a bilateral process in CTM pursuant to which both the institution and the broker-dealer agree to cancel a previously match agreed trade.

Additional information concerning such transactions will be shared with NSCC solely for clearance, settlement and risk management purposes and assisting NSCC in carrying out its respective functions and responsibilities as a self-regulatory organization, as defined in the Securities Exchange Act of 1934, and systemically important financial market utility, as described in Title VIII of the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010.

2.d. Risk of Service Disruption; Impact to CTM Core Service

If CTM experiences a service disruption:
- The institution can allocate their trades outside of CTM.
- The institution and the broker-dealer can submit their instructions to the custodians and/or clearing broker to settle at the depository.

2.e. Workflow Diagram of CTM Core Service
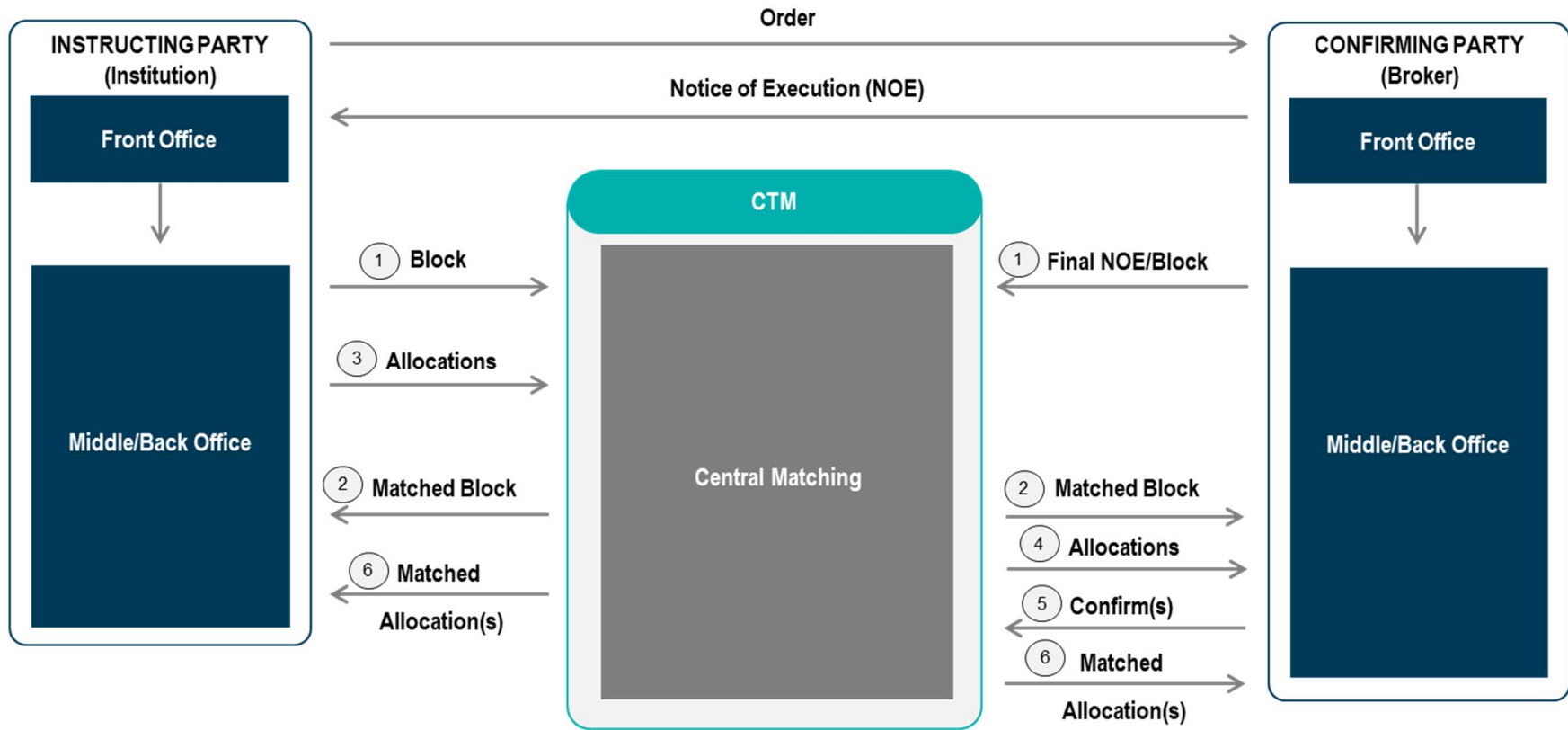
2.f. Included System Functionality

2.f.i. Archival Services[4]

2.f.i.1. Confirm Archive

Confirm Archive is a service available to Clients of CTM and TradeSuite ID[5] that allows Clients to electronically search for match-agreed confirmations and cancel match-agreed confirmations in the XACT system, a DTCC system which is the internal repository used by ITP for storing the archived confirmations. Clients may use the PBS Smart/Search system, a DTCC graphical UI to access up to ten (10) years of their confirmation history. Clients may print or download a confirmation as a text file. If a Client is no longer a client of ITP, the former Client will continue to have access to its records in Confirm Archive for the remainder of the 10-year record retention period.

2.f.i.1.aa. Confirm Archive Service Disruption

If Confirm Archive experiences a service disruption:

- Clients will not have access to their CTM match-agreed confirmations, cancel match-agreed confirmations, or TradeSuite ID confirmations.
- Alternatively, Clients can request their CTM match-agreed confirmations and cancel match-agreed confirmations from TradeSuite ID and CTM.

2.f.i.2. Trade Archive

Trade Archive is a service available to institutional clients of CTM and TradeSuite ID[6] that allows its institutional users to access archived records of their trades and trade-related information (specifically, their allocations, confirmations, and affirmations, including the time stamps for each, related to their CTM and/or TradeSuite ID activity, respectively). Trade Archive maintains such records in a consolidated location for any activity related to the client's CTM and/or TradeSuite ID transactions, on a go-forward basis post launch in May 2024. Records are retained for a period of ten years from the date of a transaction. Clients have the ability to log in via MyDTCC to access the archive, search for trade records, as well as view and download trade information. If a client terminates its subscription to CTM or TradeSuite ID, the archival capabilities for the relevant service will terminate. Prior to the termination of service, the Client will be put on notice that they must download their records. In that event, ITP will continue to maintain the records pursuant to its own recordkeeping requirements and policies.

2.f.i.2.aa. Trade Archive Service Disruption

If Trade Archive experiences a service disruption:

- Clients will not have access to their trades and trade related information.
- A Trade Archive disruption does not have any impact on the rest of ITP's applications.
- Source data will still be available in the underlying systems (e.g., CTM & TradeSuite ID) and Confirm Archive will still be available.

---

[4] Certain functionalities of the Services have been the subject of no action letters issued by the SEC staff. These no action letters largely address confirmation delivery and retention for SEC registered broker-dealers and investment advisers. The "Service-Specific Terms Addendum" sets forth specific requirements with respect to applicable retention tools / archival functionality.
[5] *See* Section 3, below.
[6] *See* Section 3, below.

DTCC

2.f.ii. Analytics Services

2.f.ii.1. ITP Data Analytics Operational Metrics

ITP Data Analytics Operational Metrics is included in Clients' CTM or TradeSuite ID subscription. It enables a Client to review its historical CTM matching and TradeSuite ID affirmation activity for the purpose of analyzing the operational timeliness and efficiency of these processes.

ITP Data Analytics Operational Metrics for CTM provides Clients with metrics and analytics of operational performance (e.g., timeliness of trade entry in CTM, type and count of trade exception reasons, and timeliness of achieving a CTM match agreed status) with counterparties over a quarterly, monthly, and weekly time period. The ITP Data Analytics Operational Metrics functionality also provides Clients with the ability to access and download via a CSV file their underlying transaction data for in-depth analysis.

ITP Data Analytics Operational Metrics for TradeSuite ID provides Clients with analytics on the timeliness of confirmations entered in TradeSuite ID and the timeliness of affirmations. The capability includes an industry benchmarking component and affirmation measurements for the T+2 settlement cycle and upcoming T+1 settlement cycle in the U.S. market.

The ITP Data Analytics T+1 Scorecard is a specific view of Client data that is intended to provide Clients with operational performance metrics, industry benchmarks, and trend analysis to help prepare for the move to T+1 settlement in the U.S. The capability is available to Clients of CTM and TradeSuite ID.

2.f.ii.1.aa. ITP Data Analytics Operational Metrics Service Disruption

If ITP Data Analytics Operational Metrics experiences a service disruption:

- There is no disruption to any other Client Service.
- Impacts include a potential delay in the availability of ITP Data Analytics Operational Metrics, including the T+1 Scorecard (all of which is read-only historical reporting).

2.g. CTM Optional Workflows

CTM may be configured with optional workflows. Clients of CTM may, but are not required to, use any of the optional workflows noted below.

2.g.i. M2i

2.g.i.1. M2i Description and Functionality

An optional CTM workflow called M2i is available to CTM Clients that subscribe to CTM, TradeSuite ID, and ALERT SSI Enrichment.[7] M2i is intended to facilitate and automate trade processing to DTC. The M2i workflow varies based on which counterparties (institution or broker-dealer) has subscribed and whether the institution settles via a prime broker or via a Global Custodian, as set forth in the matrix of M2i options set forth below.[8]

Once enabled and configured, this M2i workflow, depending on which counterparties to the trade are subscribed, creates the TradeSuite ID confirmation on the broker-dealer's behalf, including SSI enrichment, and automatically affirms the trade if the trade matches against trade data entered by the institution in CTM.

---

[7] ALERT SSI Enrichment is discussed in section 2.g.iii. below.
[8] Depending on the makeup of the Client, some optional workflows may not be applicable or improve STP (e.g., a Client that processes only non-DTC-eligible securities will not benefit from "M2i").

Although affirmation is automatic, trades are only affirmed after the institution and executing broker match on the financial terms of the trade. Once a confirmation is affirmed via CTM, the trade may not be affirmed again. M2i does not accept pre-matched or pre-affirmed trades.

2.g.i.2. Risk of M2i Service Disruption

If M2i experiences a service disruption:

- M2i uses ALERT, CTM, and TradeSuite ID, so a disruption in any of those underlying services, if as noted below, will impact the availability of M2i:
    o As ALERT's SSI data is replicated synchronously into CTM for SSI enrichment, if ALERT experiences a service disruption:
        ▪ Existing Clients that enrich their transactions through CTM will not be able to update their SSI data during the service disruption.
        ▪ New Clients will not be able to upload their SSIs during the service disruption.
        ▪ As an alternative, Clients may submit their SSI information in their transaction submission to CTM or go into CTM to add in SSI information manually.
        ▪ Clients that do not use CTM SSI enrichment capability can append their own SSI information in their submission to CTM (outside of ALERT).
        ▪ Clients will not be able to retrieve their specific SSI inventory for their reconciliation processes for the duration of the disruption.
    o A disruption in CTM would halt use of the workflow and Clients would need to wait for resolution for full functionality. See Section 1.c. above.
    o A disruption in TradeSuite ID would halt use of the workflow and Clients would need to wait for resolution.
        ▪ Clients can execute subsequent post-trade processing directly at the depository.

2.g.i.3. M2i Options Depending on IM or executing broker Subscription; IM Settlement Election

The CTM M2i workflow establishes a connection between CTM and TradeSuite ID. Without this connection, a broker-dealer Client would need to separately input trade data into CTM (for the purpose of matching) and the related confirmation into TradeSuite ID (for the purpose of affirmation) in two steps. CTM's M2i workflow consists of different configuration options depending on how the Clients are set up. Each of these different configuration options is described in Table 4 *M2i Options* below, and then with additional explanation and workflow diagrams.

Table 4: M2i Options

M2i Workflow Diagram	Use Case			Executing broker Confirm Creation	Affirmation			
	IM Enabled on M2i	Executing broker Enabled on M2i	PB or GC Settled	TS ID Confirm generated by CTM on Broker's Behalf	Auto-affirmation via CTM Match	Auto-affirmation via TradeMatch Match	Affirmation performed in TradeSuite ID by Custodian	Affirmation performed in TradeSuite ID by Prime Broker*
Option 3	Y	Y	PB	Y	N	N	N	Y
Option 1	Y	Y	GC	Y	Y	N	N	N
Option 3	Y	N	PB	N	N	N	N	Y
Option 2	Y	N	GC	N	N	Y	N	N
Option 3	N	Y	PB	Y/N**	N	N	N	Y
Option 3	N	Y	GC	Y/N**	N	N	Y	N

* See Bear, Stearns & Co., Inc. (January 24, 1994) (Letter re: Prime Broker Committee Request).
** Optional based on broker-dealer implementation

Option 1

If both the institution and broker-dealer are enabled on M2i, CTM is able to generate the TradeSuite ID confirmation on the broker-dealer's behalf and affirm the TradeSuite ID confirmation if the trade matches against trade data entered by the institution. The broker-dealer no longer sends a confirmation directly into TradeSuite ID for these trades. By subscribing to this workflow, the Client only needs to submit the trade data once into CTM; CTM will send the confirmation to TradeSuite ID (subsequent to the post CTM match) and TradeSuite ID will process the confirmation to all parties on the confirmation. Once TradeSuite ID gets the affirmation from CTM (on behalf of the institution, from the CTM match), TradeSuite ID will determine DTC eligibility as described in Section 3.

Option 2

If the institution is enabled on M2i, but the broker-dealer is not enabled on M2i, a match is required within the TradeMatch application within TradeSuite ID (as described below under discussion of TradeSuite ID) before an affirmation can automatically occur. In this case, CTM automatically sends the institution's allocation to TradeSuite ID once the allocation reaches a match agreed (or MAGR) state, where it then goes through a secondary matching process in TradeMatch against the confirmation that the broker has sent directly into TradeSuite ID (not generated from CTM). While this is a multi-step process with the broker-dealer submitting confirmations into both CTM and TradeSuite ID, this process is transparent to the institution. The institution may optionally choose to send a settlement instruction message (notification) from Settlement Instruction Manager if subscribed to this additional functionality (See Section 2.h.i.).

For Option 1 and Option 2, TradeSuite ID will then continue the trade process by sending the affirmed confirmation to all parties to the trade indicated on the confirmation to DTC or NSCC.
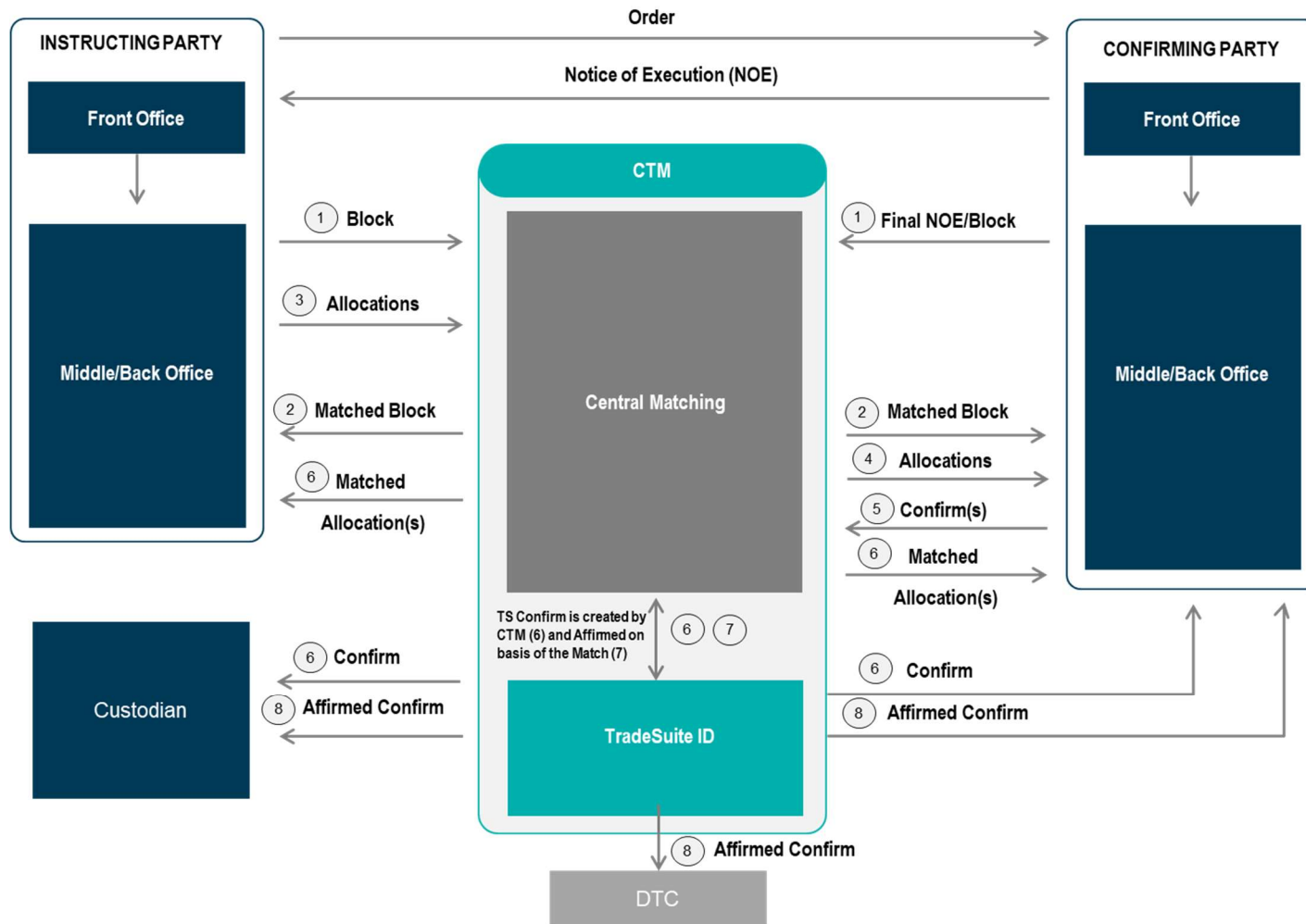
Option 3

Third-party affirmations may be required in certain circumstances. For example, a prime broker must affirm a trade of a hedge fund classified as an institution in CTM. In these instances, CTM sends DTC-eligible trades that are match agreed to TradeSuite ID to be affirmed by the institution's agent, prime broker, or custodian. To enable this workflow, broker-dealers must suppress sending confirmations to TradeSuite ID as CTM is creating the broker-dealer's confirmation. The institution may optionally choose to send a settlement instruction message (notification) from Settlement Instruction Manager if subscribed to this additional functionality.

See Section 2.h.i.

2.g.i.4. Workflow Diagrams of M2i

See below workflow diagrams of M2i, numbered based on the options set forth above.

DTCC

Option 1 - Both the institution and broker-dealer are enabled on M2i. The broker-dealer using CTM has subscribed to M2i and implemented the interface described above.

DTCC

Option 2 – The institution is enabled on M2i, but the broker-dealer is not enabled on M2i. In this option, a match is required within the TradeMatch application within TradeSuite ID (as described in Section 3 below under discussion of TradeSuite ID) before an affirmation can automatically occur.

DTCC
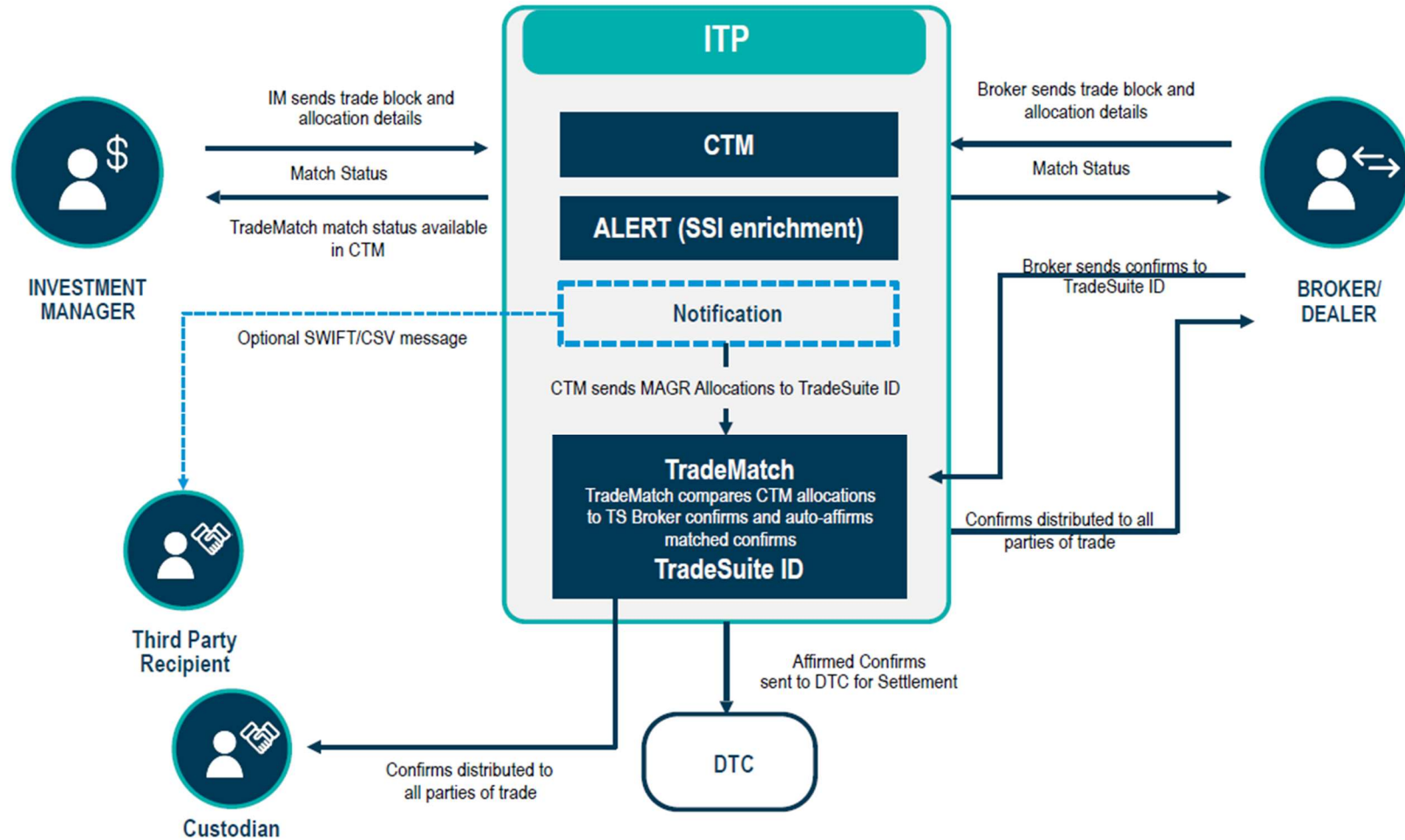
Option 3 – Third-party manual affirmation is required for match agreed trades in CTM, which are sent to TradeSuite ID to be manually affirmed on behalf of an institution by another TradeSuite ID user.

DTCC
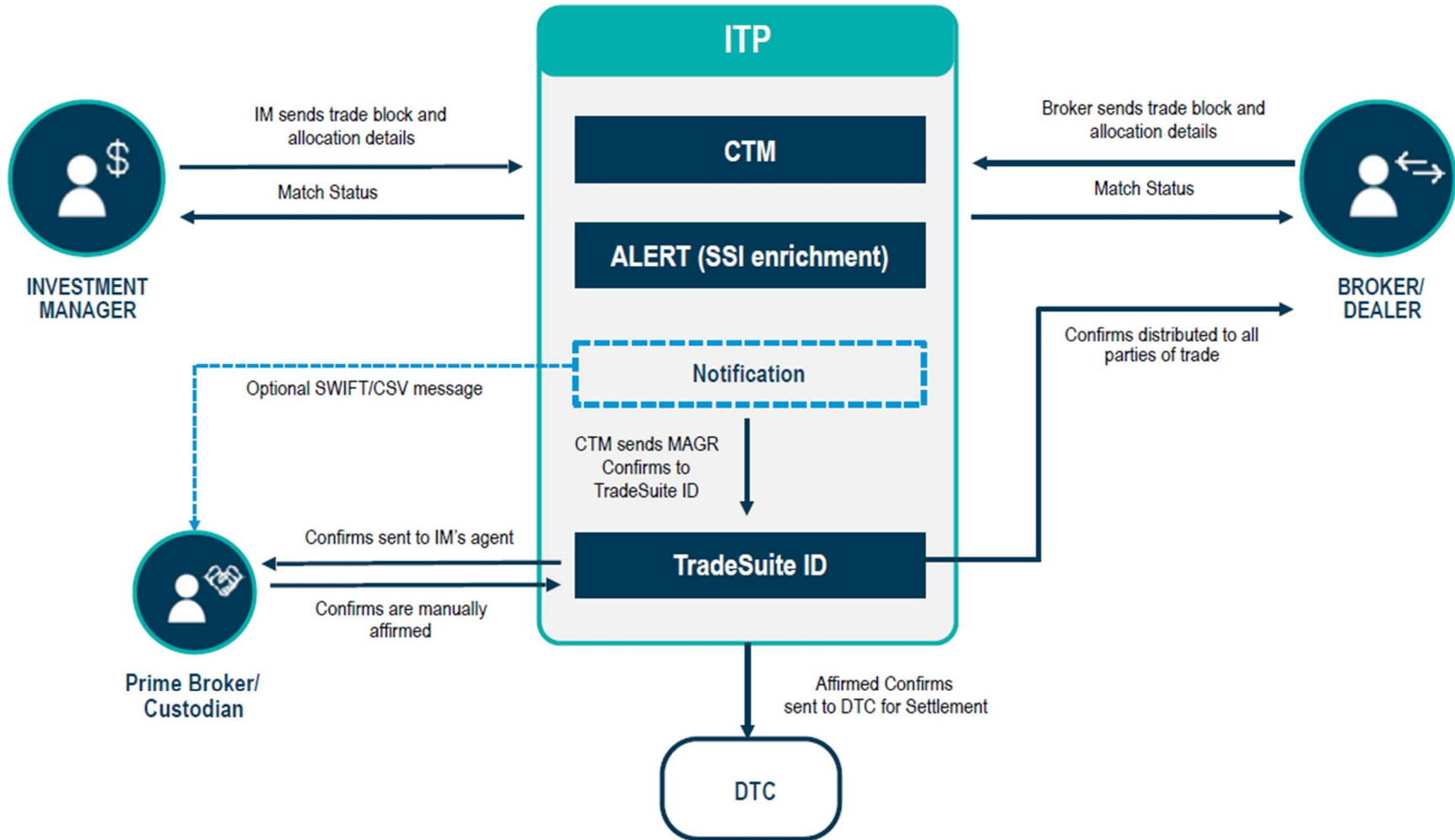
2.g.ii. CTM for Prime Broker

2.g.ii.1. Optional Workflow Description and Functionality

An optional workflow, referred to as CTM for Prime Broker, is available to CTM Clients to simplify and enhance the trade process. CTM for Prime Broker adds additional functionalities to the current CTM matching and allocation process, with a goal of providing prime brokers information about the matching status for trades that the prime broker will eventually have to settle. CTM for Prime Broker requires a subscription on the part of both the institution and the prime broker.

This workflow enables CTM to create and send a trade message to the CTM institution's prime broker. That trade message notifies the prime broker of a trade that has been allocated, matched, and agreed within CTM between the institution for which the prime broker settles trades and the executing broker. Upon receiving the details of that matched trade, the prime broker has the ability to agree the transaction with the executing broker, and also has the ability to reject a trade, if applicable. CTM for Prime Broker is designed to provide prime brokers with a real-time notification message to automate and standardize the end-of-day trade file process that currently exists today between prime brokers and institutions.

2.g.ii.2. Risk of Disruption to CTM for Prime Broker Workflow

If CTM for Prime Broker experiences a service disruption,

- Prime brokers will not be able to match or reject the confirmations that have already been matched between institution and the executing broker.
- Alternatively, prime brokers can request the matched confirmations from the institution and the executing broker outside of CTM to execute subsequent trade processing into the depository and central counterparty.

2.g.ii.3. Workflow Diagram of CTM for Prime Broker

DTCC
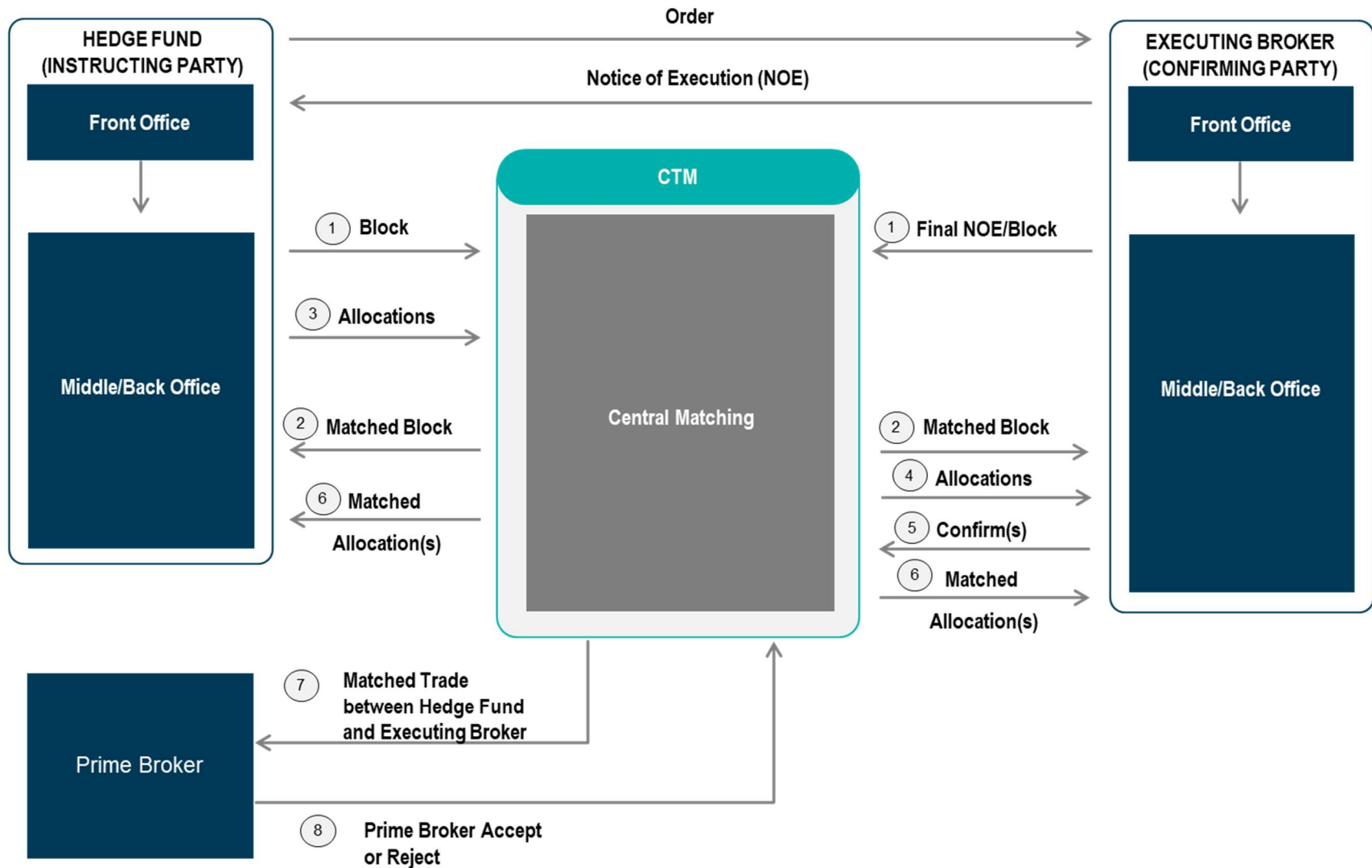
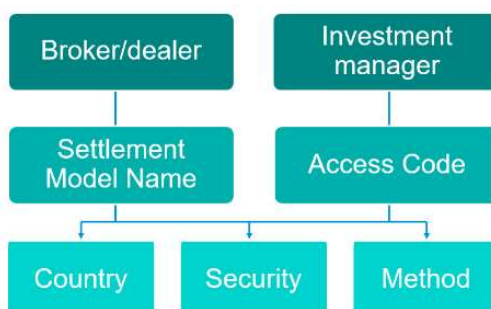<u>2.g.iii. ALERT SSI Enrichment in CTM</u>
(Standard ALERT Enrichment/ALERT Keys, ALERT Key Auto Select)

<u>2.g.iii.1. Optional Workflow Description and Functionality</u>

SSI enrichment is the process by which SSIs and other account identifying information from ALERT (as described in Section 1) are added to trades sent for matching within the CTM Client Service. In order to enable trade enrichment with SSI information from ALERT, Clients must link their "CTM organization" to an ALERT organization (or entitlements profile) as the primary source of SSI information, after which Clients may enrich CTM with SSI and account information using one of the two optional workflows (ALERT Keys, ALERT Key Auto Select (AKAS)) described below. SSI enrichment from ALERT, although optional, is considered by ITP to be a CTM best practice. Clients that do not use SSI enrichment must provide SSIs directly to CTM on a trade-by-trade basis by entering the information into CTM through the Client's interface.

All SSIs in ALERT are classified according to the Country (of Settlement), Security, and Method (final depository where settlement takes place). Broker-dealers organize their SSIs under a framework called "Settlement Models," and institutions (and entities on whose behalf an institution submits SSIs) organize their SSIs under a framework called "Access Codes," which typically represent the institution's accounts or funds. For any given Settlement Model or Access Code, the Country-Security-Method combination must be unique. The enrichment process works by mapping the broker-dealer's or institution's unique Country, Security, Method SSI to the CTM trade. Broker-dealers enrich the CTM transaction with their own SSIs and institutions enrich the CTM transaction with their own SSIs. Either party may view the other parties' SSIs on the transaction.

<u>Graphic Description of Settlement Models and Access Codes</u>

<u>Options for ALERT SSI Enrichment in CTM</u>

There are two options available for CTM Clients that enable them to enrich the SSIs they have stored in ALERT on their trades:

1. **ALERT Key Auto-Select (AKAS):** AKAS smart enrichment capability uses CTM trade information to derive the country and security type for a transaction and determine a default depository. Clients can override default choices and indicate settlement location preferences. To use AKAS functionality to enrich SSIs, Clients need to be a Client of both ALERT and CTM. Specific service subscription/entitlements and user roles need to be enabled and active for the specific Client's ALERT and CTM organizations or entitlement profiles.

2. **Standard ALERT enrichment:** On a trade-by-trade basis, when a trade is submitted to CTM for matching, both broker-dealers and institutions provide the ALERT keys (Country, Security, Method) into the CTM trade to activate the enrichment process. These fields enable the selection of the SSI specified by the CTM user and adds this SSI to the trade message in CTM. To enrich SSIs
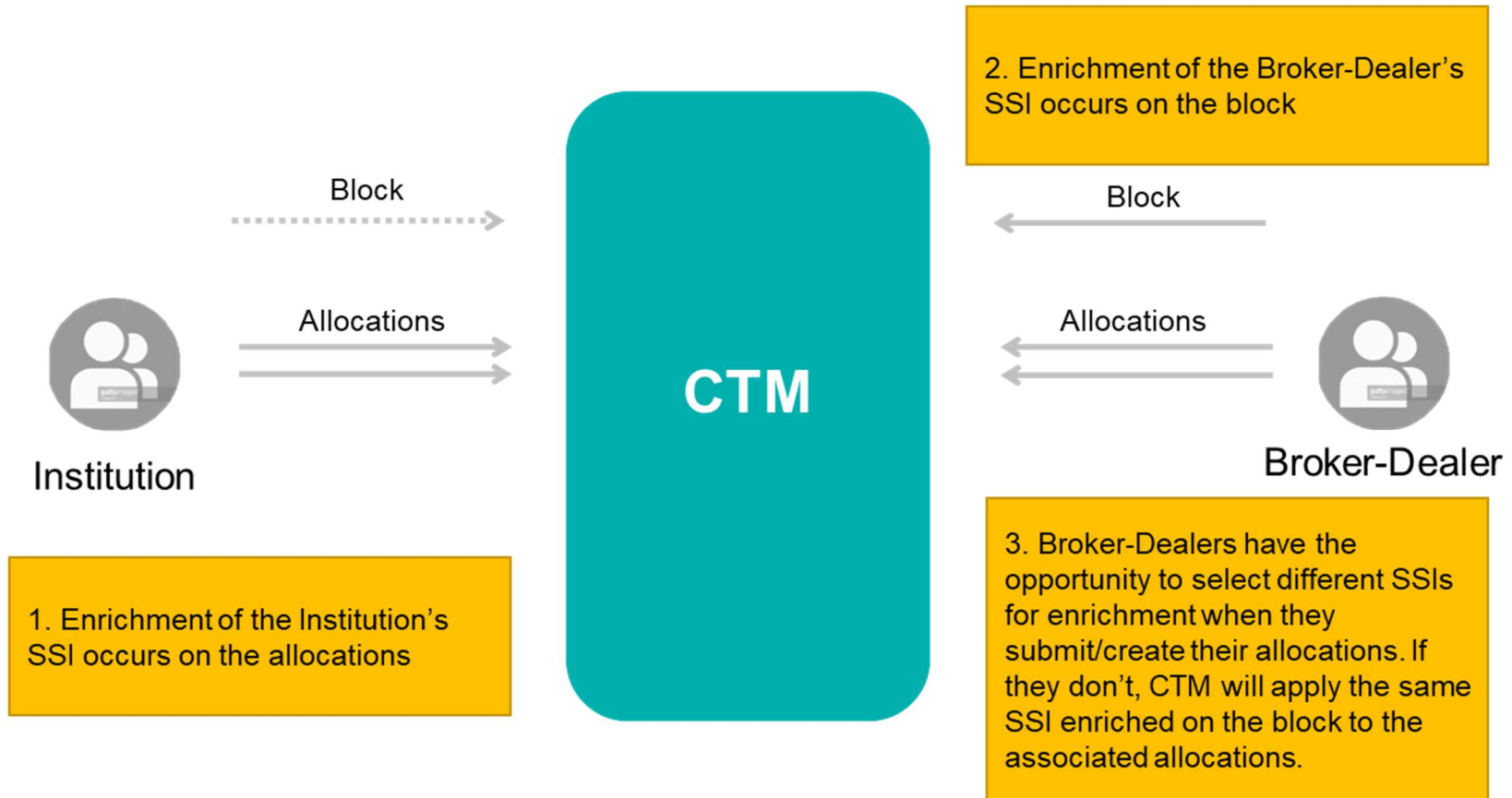
from ALERT, Clients need to be a Client of both ALERT and CTM, and the appropriate subscriptions need to be enabled.

2.g.iii.2. Risk of Service Disruption to ALERT SSI Enrichment

- If ALERT SSI Enrichment experiences a service disruption:
  o Existing Clients that enrich their transactions through CTM using AKAS will not be able to update their SSI data during the service disruption.
    ▪ As an alternative, Clients may submit their SSI information in their transaction submission to CTM using standard ALERT enrichment or add in SSI data manually into CTM.
  o Institutions that enrich their transactions through CTM using standard ALERT enrichment will not be able to update their SSI data during the service disruption.
    ▪ As an alternative, institutions may manually enter SSI data into CTM.
  o A disruption in CTM would halt use of alternative methods of enrichment and Clients would need to wait for resolution for full functionality.
  o Clients will not be able to retrieve their specific SSI from the CTM transaction to maintain their own in-house SSI repository for the duration of the disruption.

DTCC

2.g.iii.3. Workflow Diagram of ALERT SSI Enrichment in CTM

Enrichment happens at different stages in the trade submission, matching, and allocation process depending on the Client type .
The visual below shows the difference between this process for broker-dealers and institutions (Clients of CTM):

Block

Allocations

CTM

Institution

2. Enrichment of the Broker-Dealer's SSI occurs on the block

Block

Allocations

Broker-Dealer

1. Enrichment of the Institution's SSI occurs on the allocations

3. Broker-Dealers have the opportunity to select different SSIs for enrichment when they submit/create their allocations. If they don't, CTM will apply the same SSI enriched on the block to the associated allocations.

DTCC

2.h. Add-on / Ancillary Services to CTM

2.h.i. Settlement Instruction Manager

2.h.i.1. Add-on / Ancillary Service Description and Functionality

Settlement Instruction Manager is ITP's optional settlement instruction message feature. Settlement Instruction Manager gives Clients, typically institutions, the ability to automatically generate and send settlement instruction messages to a Client's custodian in industry standard formats to pre-determined recipients. In the United States, Settlement Instruction Manager does not send any instructions directly to a depository. The recipients may be separate legal entities or departments within a company, for example, including custodians that would utilize the instruction message to settle within the local market, depositories that would use the instruction message to settle the transaction at the depository, or fund administrators that would utilize the instruction message for record-keeping purposes.

Typically, a Client configures Settlement Instruction Manager to send instruction messages after the trade has been match agreed in CTM. Clients also have the option to release settlement instruction messages before the trade is match agreed, which institutions may prefer for shorter settlement markets.

The message containing the settlement instruction messages may be a formal instruction or a COPY message. The instructing message would typically be sent by Settlement Instruction Manager to the settling bank. A COPY message is a copy of the original instruction message that a Client may send to other parties informing them of the trade. For example, a COPY message can be utilized when the institution requires a foreign exchange to direct a message to the foreign exchange provider. Messages may be formatted and submitted as (i) SWIFT MT54x via the Society for Worldwide Interbank Financial Telecommunication ("SWIFT") network; or (ii) CSV format via Secure File Transfer Protocol. Using Settlement Instruction Manager, Clients may configure rules based on the details of a CTM trade to determine when to create or release settlement instruction messages. The trade details on which rules may be based include Account ID, Currency, Place of Settlement, Type of Financial Instrument, and Match Agreed Status.

A Client must be subscribed to CTM in order to use Settlement Instruction Manager to send instruction messages.

2.h.i.2. Risk of Service Disruption - Settlement Instruction Manager

If Settlement Instruction Manager experiences a service disruption,

- If a Client is not settling through the U.S. markets, match agreed trades from CTM will not be provided to the settling agent bank for settlement in the non-U.S. depositories. As an alternative, the Client can manually instruct the custodians to process the trade to settle.
- If a Client is settling through the U.S. markets
  - Clients will have to manually instruct the custodians (via emails and faxes).
  - If the Client institution is enabled for M2i, the Global Custodian, based on the model that the Client has chosen, will receive an affirmed confirmation, thus there is no impact to the Client.
  - If the Client is on both M2i and Settlement Instruction Manager, then the Client may choose to use the M2i workflow with SWIFT messages as a backup for instruction messages, thus there is no impact to the Client.

2.h.i.3. Workflow Diagram – Settlement Instruction Manager
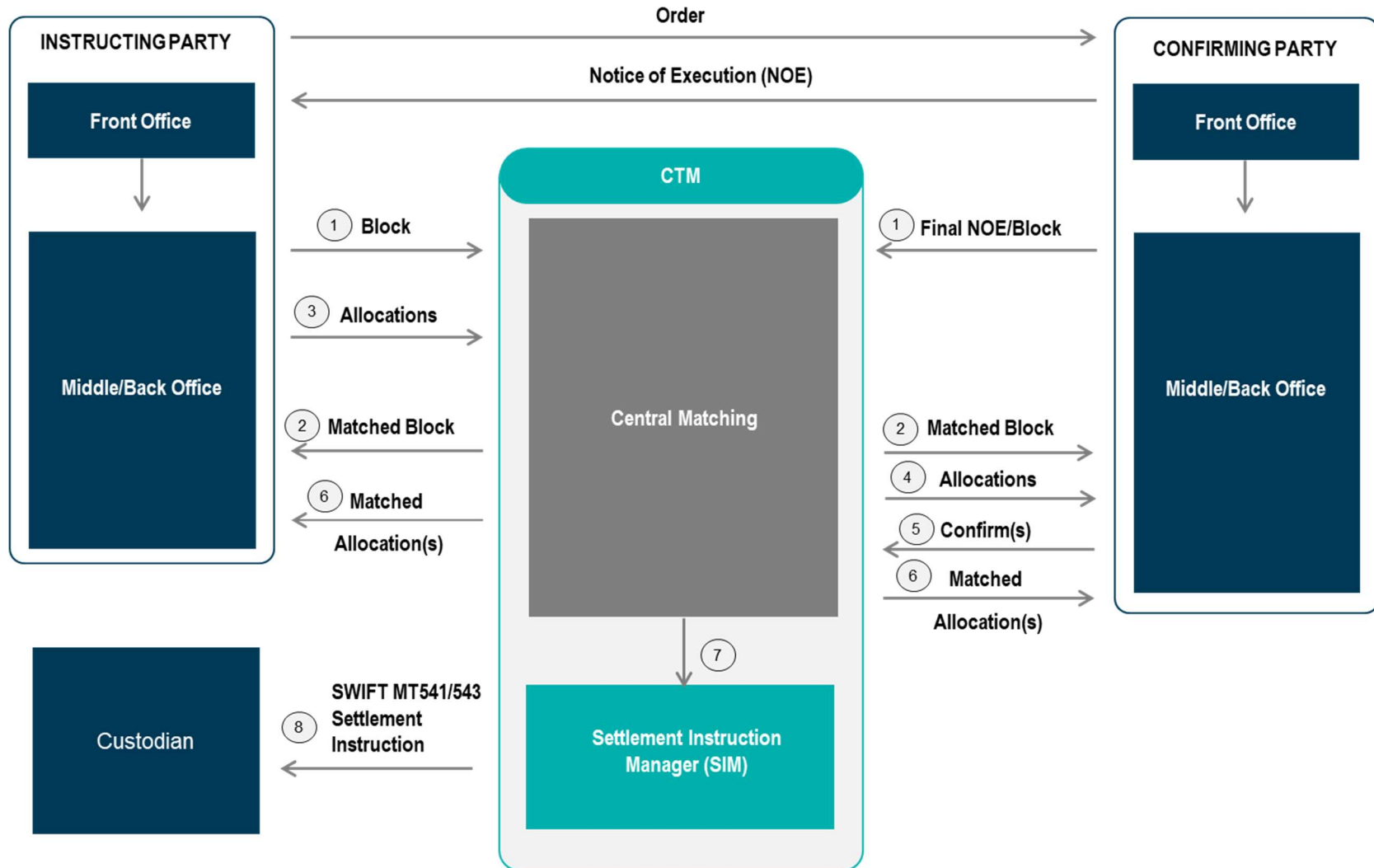
2.h.ii. inSITE

2.h.ii.1. Add-on / Ancillary Service Description and Functionality

inSITE is a central repository that stores confirmation disclosures for SEC-registered broker-dealer Clients using TradeSuite ID or CTM. Once entitled for inSITE, broker-dealers may post their confirmation disclosures via a UI to the inSITE system using pre-defined criteria.

Broker-dealer users of inSITE create a profile for enrichment of their electronic confirmations created in TradeSuite ID or CTM with the URL and reference number of the confirmation disclosure appropriate for that trade. To the extent one of the counterparties to a trade with such broker-dealer is a TradeSuite ID or CTM user, the counterparty will be able to access this enriched information (i.e., the URL and reference number) on electronic confirmations they receive. A user with such access will be able to view this information by navigating to the URL referenced in the disclosure and using the unique reference number noted on their enriched electronic confirmation to access the content.

2.h.ii.2. Risk of Service Disruption – inSITE

If inSITE experiences a service disruption,

- If a Client submits a trade through CTM or TradeSuite ID, enrichment continues without disruption.
- Impacts include:
    - If a Client needs to edit its disclosures, it will be unable to do so during the outage window.
    - Recipients of confirmations may be unable to access the disclosure during the outage.
    - If the outage was not resolved before settlement date the broker-dealer would need to use an alternative method to deliver any required disclosures.

2.h.ii.3. Workflow Diagram – inSITE
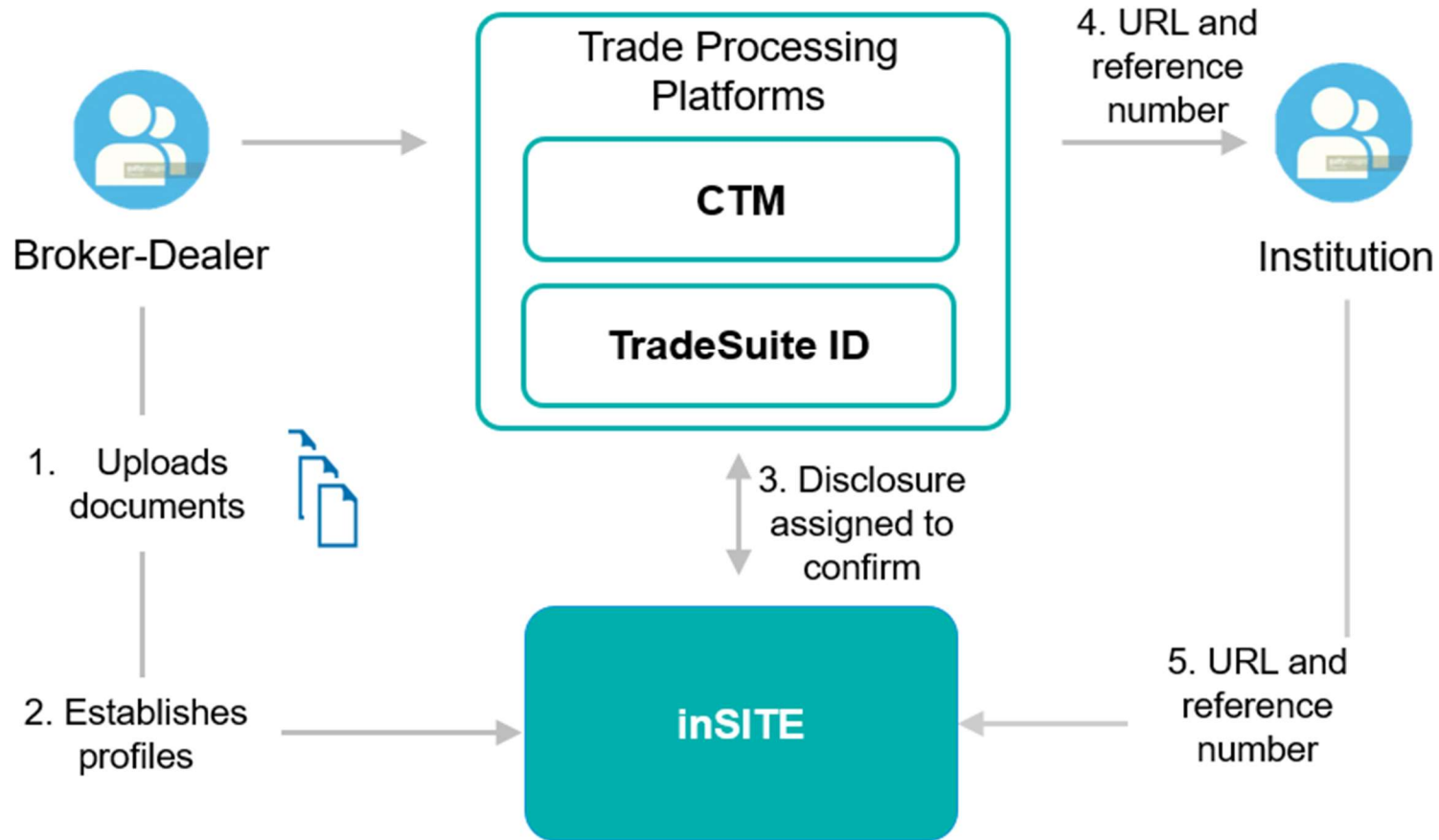
2.h.iii. ITP Data Analytics Benchmarking

2.h.iii.1. Add-on / Ancillary Service Description and Functionality

ITP Data Analytics Benchmarking enables Clients that use CTM to measure and compare their performance in the matching processes against the performance of their counterparties and industry peers by delivering metrics. ITP Data Analytics Benchmarking aggregates and anonymizes data from CTM to generate reports available to Clients on a weekly, monthly, and quarterly basis. Clients may access and download ITP Data Analytics Benchmarking via a web-based UI.

This add-on service to CTM allows Clients to use a web-based UI to monitor operational performance and create reports for their CTM identifiers, which can be customized by the Client by geographic region, financial market, and other criteria for peer comparison and benchmarking.

CTM Clients can elect to subscribe to ITP Data Analytics Benchmarking, which includes the following reports:

- *CTM Peer Comparison Report:* Provides Clients with the ability to benchmark their own CTM matching performance against an anonymized group of their peers—for specific CTM post-trade processing metrics, such as entry and matching.
- *CTM Counterparty Analysis Report:* Delivers a comparison of how individual counterparties are performing with the Client—for specific CTM post-trade processing metrics, such as entry and matching—and how that same counterparty is performing with the rest of the market in aggregate.

CTM Clients, such as broker-dealers and institutions, may use ITP Data Analytics Benchmarking to access same-day matching statistics such as "Same-Day-Entry" (percentage of trades submitted to CTM on trade date) and "Same-Day-Agreement" (percentage of trades which are MAGR on trade date).

2.h.iii.2. Risk of Service Disruption - ITP Data Analytics Benchmarking

If ITP Data Analytics Benchmarking experiences a service disruption:

- There is no disruption to any other Services.
- Impacts include:
   o A potential delay in the availability ITP Data Analytics Benchmarking (all of which is read-only historical reporting).

3. TradeSuite ID

3.a. Service Description

TradeSuite ID automates the electronic distribution of trade details between counterparties for post-trade processing of DTC-eligible securities to facilitate electronic settlement and Clients' regulatory compliance, including the option to enrich confirmations with disclosures via inSITE with an additional subscription. TradeSuite ID also includes matching functionality via the TradeMatch module of the system. Depending on subscription type, TradeSuite ID includes the option to access archival services (Confirm Archive and Trade Archive) and ITP Data Analytics Operational Metrics (including the T+1 Scorecard). A Client can subscribe to TradeSuite ID as a standalone service. The Client is not required to subscribe to any other Client Service to use TradeSuite ID. ITP will also offer an option to enable non-self-affirming.

Please see Table 5 below for a depiction of the different TradeSuite ID subscriptions, including non-self-affirming TradeSuite ID Numbers (ID Only), and the functionality associated with each:

3.b. Table 5: TradeSuite ID Subscriptions by Client Type

Client Service	Optional Workflows/ Ancillary Services	Access Method	Client Type					
			Broker-Dealer	Institution / IMO	Custodian	Broker via 3rd Party / Vendor[9]	Institution via 3rd party / Vendor[10]	Prime Broker
TradeSuite ID	Core Service	API	Y	Y	Y	Y	Y	Y
	inSITE		Y	N	N	N	N	N
	Core Service	Participant Browser System	Y	N	Y	N	N	Y
	inSITE		Y	N	N	N	N	N
	Core Service	TradeHub	Y	Y	Y	Y	Y	Y
	inSITE		Y	N	N	N	N	N
	Core Service	SWIFT	Y	Y	Y	Y	Y	Y
	inSITE		Y	N	N	N	N	N
	Core Service	UI - TradeSuite ID Limited (view only)	N	Y	N	N	N	N
	inSITE		Y	N	N	N	N	N
	Core Service	UI - TradeSuite ID Web	Y	Y	N	N	N	N
	inSITE		Y	N	N	N	N	N

Please see Table 6 below for a depiction of the different TradeSuite ID subscriptions available to institutions, including non-self-affirming TradeSuite ID Numbers (ID Only), and the functionality associated with each:

---

[9] For example, a third-party or vendor that submits a TradeSuite ID confirm into the Service on behalf of their broker-dealer client.
[10] For example, an "Order Management System" or "OMS" taking feeds of confirms alleged against institutions, on behalf of institutions.

DTCC

3.c. Table 6: Additional Subscription Details for Institutions

Institution / Buy-Side Use Cases	Functionality					
	Is M2i Workflow Allowed?	T+1 Scorecard	ITP Data Analytics Operational Metrics	Archival Services - Trade Archive	Archival Services - TS Confirm Archive	Archival Services - CTM Confirm Archive
Subscriptions						
TradeSuite ID API w/CTM	Y	Y	Y	Y	Y	Y
TradeSuite ID API w/o CTM	N	Y*	Y*	N	Y	N
TradeSuite ID UI (Web) w/CTM	Y	Y	Y	Y	Y	Y
TradeSuite ID UI (Web) w/o CTM	N	Y*	Y*	Y*	Y	N
TradeSuite ID UI (Limited) w/CTM	Y	Y	Y**	Y	Y	Y
TradeSuite ID UI (Limited) w/o CTM	N	Y*	N	N	Y	N
Non-Client Use Cases						
TradeSuite "ID Only" w/CTM	N	Y**	Y**	Y**	N	Y
TradeSuite "ID Only" w/o CTM	N	N	N	N	N	N

* only TS/affirmation data.
** only CTM/matching data.

DTCC

3.d. System Functionality – TradeSuite ID

Various parties participate in the electronic trade confirmation ("ETC") process of TradeSuite ID: (1) a Client classified as a broker-dealer; (2) a Client classified as the agent/custodian; and (3) a Client classified as an institution, each of which is required to complete a TradeSuite ID application form, in addition to the appropriate documentation as set forth in the DTCC ITP Client Requirement Policy (*See Section 5 – Contractual Obligations*). Also, a Client of TradeSuite ID must designate an agent or custodian and institution to be on the confirmation. Other parties to the confirmation may optionally be designated by the Client. TradeSuite ID enriches the confirmation with the clearing agent and clearing broker and distributes it to these parties on output.

Only Clients designated as a "broker" in the TradeSuite ID Master File (an application that is used to set-up TradeSuite ID Client types and profiles at Client onboarding), may submit a confirmation in TradeSuite ID. In order for a Client to use TradeSuite ID, it must have a "TradeSuite ID Number," which is a unique identifier. The broker-dealer represented by this TradeSuite ID Number inputs confirmations electronically into TradeSuite ID, which then sends a copy of the confirmation to all parties (e.g., instructing party, custodian/agent, clearing agent, clearing broker, and the executing broker) named on such confirmation. Either the instructing party or its agent on behalf of the instructing party or institution affirms the confirmation, at which point the TradeSuite ID system sends another confirmation to all parties denoting the updated "affirmed" status. A TradeSuite ID confirmation cannot be affirmed more than once. If the trade details within a TradeSuite ID confirmation meet the required eligibility criteria to determine if the trade is eligible to settle at DTC or clear at NSCC, TradeSuite ID will send a settlement instruction message to the applicable depository or clearing agency. To determine eligibility, TradeSuite ID checks whether the trade is eligible (based on: (i) whether the Clients responsible for settling the trade (e.g., clearing broker and agent) are each a participant of DTC and (ii) whether the security meets eligibility criteria set by DTC or NSCC, as applicable). If eligible, TradeSuite ID sends the affirmed transaction to DTC or NSCC; if not-eligible, the trade remains in an affirmed state in TradeSuite ID.

This instruction message is generated in real time by the TradeSuite ID system and delivered to either DTC or NSCC. TradeSuite ID performs no further action with respect to the message after this point, though it may receive a "Reject" message back from DTC. In the event that a "Reject" message is received by TradeSuite ID, a system alarm notification will trigger outreach from the Client Contact Center to the Client advising them to settle the trade directly with DTC. No status message is returned from NSCC.

Additional information concerning such transactions will be shared with NSCC solely for clearance, settlement and risk management purposes and assisting NSCC in carrying out its respective functions and responsibilities as a self-regulatory organization, as defined in the Securities Exchange Act of 1934, and systemically important financial market utility, as described in Title VIII of the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010.

Matching in TradeSuite ID

TradeSuite ID includes a matching system or functionality called "TradeMatch." An entity must be set up as an "institution" with a TradeSuite ID Number to match trades in TradeSuite ID's TradeMatch module. The institution may elect to have their TradeSuite ID Number be set to automatically affirm trades in TradeMatch on the basis of a match, or to match only (and not automatically affirm). TradeMatch is a part of the TradeSuite ID service. It is a comparison system in which an allocation input, supplied by those Clients subscribed to a particular CTM M2i workflow configuration option, can be matched to the confirmation supplied by broker-dealers through the TradeSuite ID Service. TradeMatch is available for Clients for all transactions submitted to TradeSuite ID, regardless of the place of settlement. Matching in TradeMatch uses various mandatory fields and optional fields (as selected by the institution) contained on both allocation input and broker confirmation (trade input) to determine a match. The trade is only automatically affirmed if the institution and the executing broker match on the financial terms of the trade.

The mandatory fields are:

- Side (Buy/Sell Code)
- Security Identifier Number
- Institution ID#
- Settlement Date
- Shares/Face value
- Agent ID#
- Settlement Location
- Net Settlement Amount
- Broker/Dealer ID# or Clearing Broker ID#
- The "Currency Code Additional" field can be mandatory, depending on certain settlement conditions and situations.

Using TradeMatch, if the institution's allocation input and the broker-dealer's confirmation input match prior to the affirmation cutoff (which is defined as a time after which affirmed confirms will not meet criteria set by NSCC and DTC for submitting into their automated netting or settlement processes, respectively), then the trade will be submitted to DTC or NSCC, as applicable. TradeSuite ID will handle the confirmation in different ways depending on whether the trade involves DTC-eligible or non-DTC-eligible securities.

For DTC-eligible securities, where the institution is the affirming party, TradeSuite ID will:

- Produce a matched affirmed confirmation.
- Distribute copies of the matched affirmed confirmation to executing brokers and agents.
- Send the instruction message for automated settlement, i.e., TradeSuite ID sends the affirmed confirmation to DTC/NSCC.

If the data matches in TradeMatch, but the institution is not the affirming party, the TradeSuite ID service produces a matched confirmation, distributes the confirmation to all parties to the trade, and awaits affirmation by the affirming party.
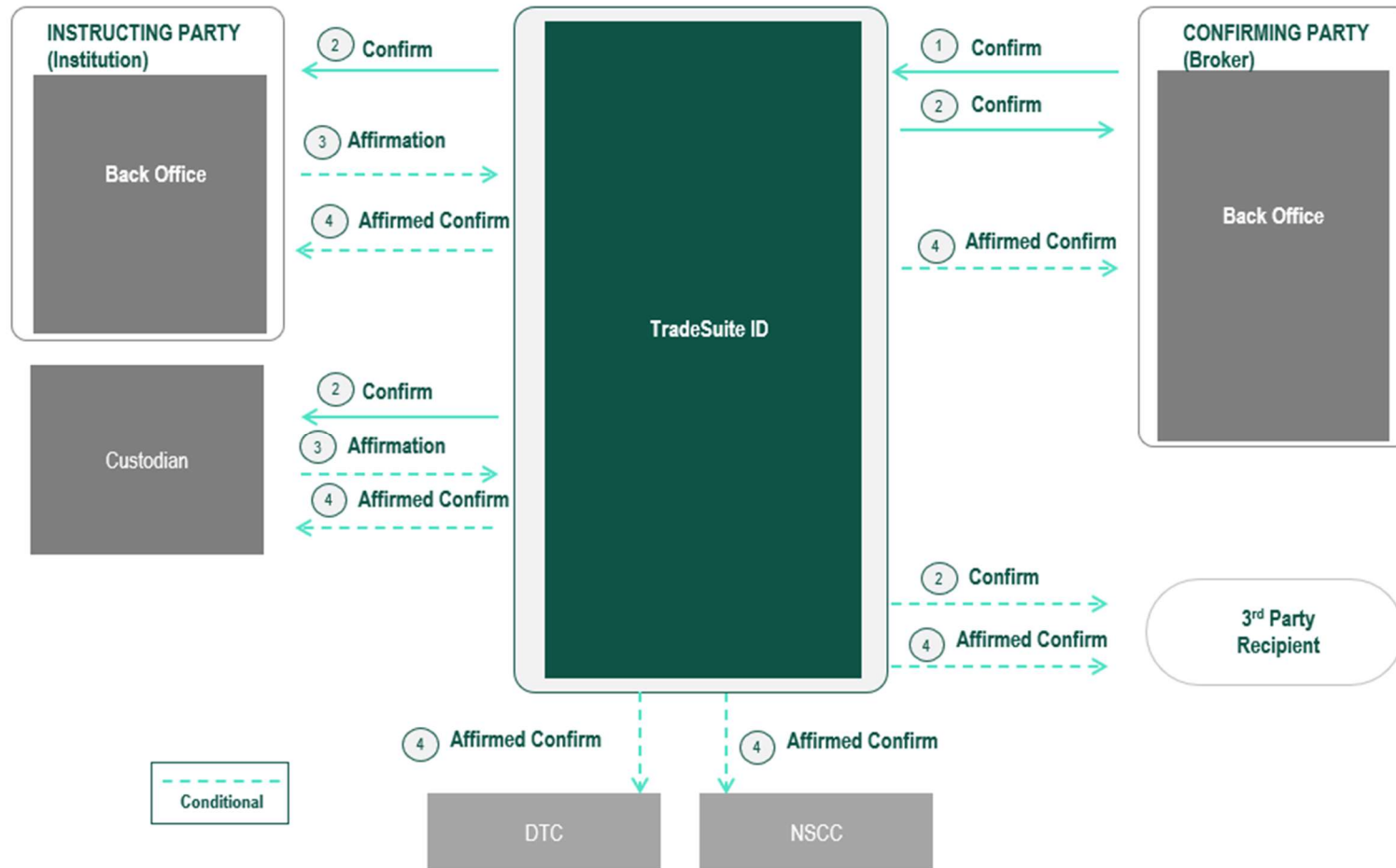
3.e. Risk of TradeSuite ID Service Disruption

If TradeSuite ID experiences a service disruption:

- Clients can request an affirmation cutoff extension; or
- The custodian/clearing agent and clearing broker can choose to settle directly at the depository.

3.f. Workflow Diagram of TradeSuite ID

TradeSuite ID Workflow

3.g. Non-Client Set up: Non-Self-Affirming Institutions – Use of TradeSuite ID Number – "ID Only"

Certain institutions rely on their custodian to affirm their transactions in TradeSuite ID but are not identified in TradeSuite ID as the "institution" because their custodians affirm on their behalf. ITP will permit these non-self-affirming parties to receive a TradeSuite ID Number, which will not enable these entities to use any Services or receive access to TradeSuite ID; as such, institutions that are issued these TradeSuite ID Numbers may not rely on ITP to satisfy their recordkeeping obligations and broker-dealers may not rely on TradeSuite ID to meet any regulatory obligation to these entities (such as satisfy their confirmation disclosure obligations). These non-self-affirming parties will not be Clients but will need to complete a TradeSuite ID application in order to receive the TradeSuite ID Number. TradeSuite may also issue TradeSuite ID Numbers to non-U.S. based registered investment advisers, to permit them to receive confirmations from non-U.S., non-SEC registered broker-dealers. Non-Clients will not be able to use the TradeSuite ID Number to affirm trades or to access other Services.

3.h. TradeSuite ID System Functionality – Archival

Clients that use TradeSuite ID have access to Confirm Archive and Trade Archive. See Section 2.f.i. above.

3.i TradeSuite ID System Functionality – ITP Data Analytics Operational Metrics

Clients that use TradeSuite ID have access to ITP Data Analytics Operational Metrics. See Section 2.f.ii. above.

3.j. Add-on / Ancillary Service – inSITE

Clients that use TradeSuite ID have access to inSITE. See Section 2.h.ii. above.

4. ITP Integration Business Services

4.a. Service Description

ITP Integration Business Services are used for various Services, including CTM, TradeSuite ID, and ALERT, as applicable. They consist of professional services and support agreed upon by the Client and ITP in an SOW, which is attached to and incorporated into the MSA, as described in more detail in the DTCC ITP Client Requirement Policy and which will detail the agreement between ITP and the Client concerning the Services being provided. ITP Integration Business Services is a professional service and support function which Clients may engage in at a cost. Examples range from supporting Client interface development to the Services to providing best practices and guidance to optimize the use of the Services.

4.b. Service Functionality

ITP Integration Business Services (the "Integration team") acts as the primary point-of-contact for new Clients as they onboard to the Services. ITP Integration Business Services also provides assistance to existing Clients adding new functionality or where such Clients are migrating to new technology (which could include ITP's technology changes or Client technology changes). The Integration team is the primary point of contact for facilitation of a Client's access configurations. The Integration team will consult with Clients on establishing configurations appropriate based on ITP's experience and understanding of best practice across Clients.

Projects that require an SOW in addition to the Client's MSA include consultative discussions, recommendations on best practices and guidance, as well as assistance with testing. SOW efforts and overall costs are estimated based on a variety of factors, including but not limited to: (i) the Services the Client is using (e.g., CTM or TradeSuite ID); (ii) the type of interface to which the Client wishes to connect (e.g., file based, direct interface); (iii) the scope of the engagement; (iv) the overall duration of the project; (v) the overall complexity of the project; and (vi) the resultant resources which may be required to support the project. At times, Clients may elect to access the Services via their own order management system with an existing certified interface to the Services; this may reduce the complexity of the engagement, streamline efforts, and ultimately result in a decrease of SOW efforts.

The interface types that Clients can utilize include APIs (typically used by larger Clients with high volumes), the file-based Message Translation Interface ("MTI") (typically used by small to mid-size Clients), and our web-based UIs.

At times, the Integration team will engage with Clients to analyze their use of the Services and discuss ideas to optimize the Client's configuration and set-up, which may help improve their post-trade processing and STP. In this type of engagement, the Integration team will use the ITP Data Analytics Services to review the matching rates for such Clients, along with Settlement Instructions, configurations, and overall Client behaviors to identify opportunities to optimize their use of the Services.

4.c. Risk of Service Disruption – ITP Integration Business Services

ITP Integration Business Services consists of professional services and support agreed upon by the Client and ITP in a SOW, and as such, a service disruption or issue with service would be handled pursuant to the contract.

Glossary of Terms

"Affirmed" means, the status of the confirmation after the party affirms the confirm.

"API" means, application program interface.

"Clients" means, clients who are provided Client Services by the Applicant, as defined more specifically in this document.

"CTM" means, Central Trade Manager.

"CTM organization" means, the Clients product administrator works with a DTCC representative to create an environment in the UI that matches the Clients business requirements.

"ETC" means, electronic trade confirmation.

"FIX" means, financial information exchange.

"ITP", refers to the ITP Business, which is the global provider of the Services which DTCC ITP licenses to certain non-U.S. subsidiaries of DTCC the right to use DTCC ITP's intellectual property relating to the Services (including sublicensing intellectual property rights that ITP receives from DTCC ITP Matching pursuant to the DTCC ITP-DTCC ITP Matching Services Agreement) in certain non-U.S. jurisdictions in order for such subsidiaries to provide Services in such jurisdictions. Although the non-U.S. subsidiaries provide Services in such jurisdictions, such Services are performed by the DTCC ITP's systems located in the United States with respect to U.S. and/or DTC-eligible securities.

"ITPM" means, DTCC ITP Matching (US) LLC.

"IMO" means, investment manager outsourcer.

"Institutions" means, collectively, investment managers, IMOs, hedge funds, and other institutions.

"M2i" means, CTM Match to Instruct.

"Match Agreed" or "MAGR" means, the status in CTM indicating that a trade is matched at the block and the allocation/contract is complete (e.g., fully allocated), and has no errors at the block or allocation/contract.

"MTI" means, Message Translation Interface.

"Reject" refers to canceling requests or trade components submitted.

"SSI" means, Standing Settlement Instructions, which is a generic term used to describe the transmission of the trade or settlement details to the settlement agent.

"SWIFT" means, the Society for Worldwide Interbank Financial Telecommunications, and is used to send and receive information, primarily money transfer instructions.