

DTCC MUTUAL FUND SERVICES

2019 HOLIDAY PROCESSING SCHEDULE

The following is a summary of 2019 holidays and the changes in operations and schedules for Mutual Fund Services. Please note that this schedule applies to Mutual Fund Services only. Mutual Fund Services are an offering of DTCC's National Securities Clearing Corporation.

If you have any questions, please contact your relationship manager or Mutual Fund Services at (212) 855-8877.

MUTUAL FUND SERVICES WILL BE CLOSED ON THE FOLLOWING HOLIDAYS:

National Securities Clearing Corporation, the NYSE & NASDAQ Stock Exchanges and all U.S. Federal banks will be closed. **No activity will be accepted and no settlement will occur on these days.**

New Year's Day	Tuesday, January 1
Dr. Martin Luther King, Jr. Day	Monday, January 21
Presidents' Day	Monday, February 18
Memorial Day	Monday, May 27
Independence Day	Thursday, July 4
Labor Day	Monday, September 2
Thanksgiving Day	Thursday, November 28
Christmas Day	Wednesday, December 25
New Year's Day (2020)	Wednesday, January 1

MUTUAL FUND SERVICES WILL BE CLOSED ON THE FOLLOWING EXCHANGE HOLIDAY:

National Securities Clearing Corporation, the NYSE & NASDAQ Stock Exchanges will be closed. **No activity will be accepted and no settlement will occur on this day.**

Good Friday	Friday, April 19
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MUTUAL FUND SERVICES WILL BE OPEN ON THE FOLLOWING BANK HOLIDAY:

National Securities Clearing Corporation, the NYSE & NASDAQ Stock Exchanges will be open. **Activity will be accepted but no settlement will occur on these days.**

Columbus Day	Monday, October 14
Veterans Day	Monday, November 11

NEW YEAR'S DAY HOLIDAY SCHEDULE

New Year's Day is Tuesday, January 1, 2019. National Securities Clearing Corporation, the NYSE & NASDAQ Stock Exchanges, and all U.S. Federal banks will be closed on Tuesday, January 1, 2019 in observance of New Year's Day. The following changes in NSCC's operations and schedules will be in effect:

ACATS-FUND/SERV® INTERFACE:

No ACATS-Fund/SERV® Interface activity will be accepted on Tuesday, January 1, 2019.

FUND/SERV®:

No Fund/SERV® activity will be accepted on Tuesday, January 1, 2019.

DTCC PAYMENT AXIS®:

No DTCC Payment aXis® activity will be accepted on Tuesday, January 1, 2019.

NETWORKING AND OMNI/SERV:

No Networking or Omni/SERV activity will be accepted on Tuesday, January 1, 2019.

MUTUAL FUND PROFILE SERVICE (MFPS I – PRICE AND RATE AND MFPS II – PARTICIPANT, SECURITY, AND DISTRIBUTION):

No MFPS I or MFPS II activity will be accepted on Tuesday, January 1, 2019.

MARTIN LUTHER KING, JR. DAY HOLIDAY SCHEDULE

National Securities Clearing Corporation, the NYSE & NASDAQ Stock Exchanges and all U.S. Federal banks will be closed on Monday, January 21, 2019 in observance of Martin Luther King, Jr. Day. The following changes in NSCC's operations and schedules will be in effect:

ACATS-FUND/SERV® INTERFACE:

No ACATS-Fund/SERV® Interface activity will be accepted on Monday, January 21, 2019.

FUND/SERV®:

No Fund/SERV® activity will be accepted on Monday, January 21, 2019.

DTCC PAYMENT AXIS®:

No DTCC Payment aXis® activity will be accepted on Monday, January 21, 2019.

NETWORKING, AND OMNI/SERV:

No Networking or Omni/SERV activity will be accepted on Monday, January 21, 2019.

MUTUAL FUND PROFILE SERVICE (MFPS I – PRICE AND RATE AND MFPS II – PARTICIPANT, SECURITY, AND DISTRIBUTION):

No MFPS I or MFPS II activity will be accepted on Monday, January 21, 2019.

PRESIDENTS' DAY HOLIDAY SCHEDULE

National Securities Clearing Corporation, the NYSE & NASDAQ Stock Exchanges and all U.S. Federal banks will be closed on Monday, February 18, 2019 in observance of Presidents' Day. The following changes in NSCC's operations and schedules will be in effect:

ACATS-FUND/SERV® INTERFACE:

No ACATS-Fund/SERV® Interface activity will be accepted on Monday, February 18, 2019.

FUND/SERV®:

No Fund/SERV® activity will be accepted on Monday, February 18, 2019.

DTCC PAYMENT AXIS®:

No DTCC Payment aXis® activity will be accepted on Monday, February 18, 2019.

NETWORKING AND OMNI/SERV:

No Networking, or Omni/SERV activity will be accepted on Monday, February 18, 2019.

MUTUAL FUND PROFILE SERVICE (MFPS I – PRICE AND RATE AND MFPS II – PARTICIPANT, SECURITY, AND DISTRIBUTION):

No MFPS I or MFPS II activity will be accepted on Monday, February 18, 2019.

GOOD FRIDAY HOLIDAY SCHEDULE

National Securities Clearing Corporation, the NYSE, and NASDAQ Stock Exchanges will be closed on Friday, April 19, 2019 in observance of Good Friday. The following changes in NSCC's operations and schedules will be in effect:

ACATS-FUND/SERV® INTERFACE:

No ACATS-Fund/SERV® Interface activity will be accepted on Friday, April 19, 2019.

FUND/SERV®:

No Fund/SERV® activity will be accepted on Friday, April 19, 2019.

DTCC PAYMENT AXIS®:

No DTCC Payment aXis® activity will be accepted on Friday, April 19, 2019.

DTCC Payment aXis® activity will be accepted on Saturday, April 20, 2019.

NETWORKING AND OMNI/SERV:

No Networking or Omni/SERV activity will be accepted on Friday, April 19, 2019.

Networking and Omni/SERV activity will be accepted on Saturday, April 20, 2019.

MUTUAL FUND PROFILE SERVICE (MFPS I – PRICE AND RATE AND MFPS II – PARTICIPANT, SECURITY, AND DISTRIBUTION):

No MFPS I or MFPS II activity will be accepted on Friday, April 19, 2019.

MEMORIAL DAY HOLIDAY SCHEDULE

National Securities Clearing Corporation, the NYSE & NASDAQ Stock Exchanges and all U.S. Federal banks will be closed on Monday, May 27, 2019 in observance of Memorial Day. The following changes in NSCC's operations and schedules will be in effect:

ACATS-FUND/SERV® INTERFACE:

No ACATS-Fund/SERV® Interface activity will be accepted on Monday, May 27, 2019.

FUND/SERV®:

No Fund/SERV® activity will be accepted on Monday, May 27, 2019.

DTCC PAYMENT AXIS®:

No DTCC Payment aXis® activity will be accepted on Monday, May 27, 2019.

NETWORKING AND OMNI/SERV:

No Networking or Omni/SERV activity will be accepted on Monday, May 27, 2019.

MUTUAL FUND PROFILE SERVICE (MFPS I – PRICE AND RATE AND MFPS II – PARTICIPANT, SECURITY, AND DISTRIBUTION):

No MFPS I or MFPS II activity will be accepted on Monday, May 27, 2019.

INDEPENDENCE DAY HOLIDAY SCHEDULE

National Securities Clearing Corporation, the NYSE & NASDAQ Stock Exchanges and all U.S. Federal banks will be closed on Thursday, July 4, 2019 in observance of Independence Day. The following changes in NSCC's operations and schedules will be in effect:

ACATS-FUND/SERV® INTERFACE:

No ACATS-Fund/SERV® Interface activity will be accepted on Thursday, July 4, 2019.

FUND/SERV®:

No Fund/SERV® activity will be accepted on Thursday, July 4, 2019.

DTCC PAYMENT AXIS®:

No DTCC Payment aXis® activity will be accepted on Thursday, July 4, 2019.

NETWORKING, AND OMNI/SERV:

No Networking or Omni/SERV activity will be accepted on Thursday, July 4, 2019.

MUTUAL FUND PROFILE SERVICE (MFPS I – PRICE AND RATE AND MFPS II – PARTICIPANT, SECURITY, AND DISTRIBUTION):

No MFPS I or MFPS II activity will be accepted on Thursday, July 4, 2019.

LABOR DAY HOLIDAY SCHEDULE

National Securities Clearing Corporation, the NYSE & NASDAQ Stock Exchanges and all U.S. Federal banks will be closed on Monday, September 2, 2019 in observance of Labor Day. The following changes in NSCC's operations and schedules will be in effect:

ACATS-FUND/SERV® INTERFACE:

No ACATS-Fund/SERV® Interface activity will be accepted on Monday, September 2, 2019.

FUND/SERV®:

No Fund/SERV® activity will be accepted on Monday, September 2, 2019.

DTCC PAYMENT AXIS®:

No DTCC Payment aXis® activity will be accepted on Monday, September 2, 2019.

NETWORKING AND OMNI/SERV:

No Networking or Omni/SERV activity will be accepted on Monday, September 2, 2019.

MUTUAL FUND PROFILE SERVICE (MFPS I – PRICE AND RATE AND MFPS II – PARTICIPANT, SECURITY, AND DISTRIBUTION):

No MFPS I or MFPS II activity will be accepted on Monday, September 2, 2019.

COLUMBUS DAY HOLIDAY SCHEDULE

National Securities Clearing Corporation and the NYSE & NASDAQ Stock Exchanges will be open, but all U.S. Federal banks will be closed on Monday, October 14, 2019 in observance of Columbus Day. The following changes in NSCC's operations and schedules will be in effect:

ACATS-FUND/SERV® INTERFACE:

ACATS-Fund/SERV® Interface activity processed on Monday, October 14, 2019 will settle on Tuesday, October 15, 2019. Please note that funds will **not** receive Record Type 018 records on Friday, October 11, 2019 but will on Monday, October 14, 2019.

DTCC PAYMENT AXIS®:

No settlement of DTCC Payment aXis® will occur on Monday, October 14, 2019. Activity submitted on Friday, October 11, 2019 through Monday, October 14, 2019 will settle on Tuesday, October 15, 2019.

NETWORKING AND OMNI/SERV:

No Networking Dividend Cash or Activity settlement will occur on Monday, October 14, 2019.

Networking activity submitted on Friday, October 11, 2019 through Monday, October 14, 2019 will settle on Tuesday, October 15, 2019.

Omni/SERV activity will be accepted on Monday, October 14, 2019.

MUTUAL FUND PROFILE SERVICE (MFPS I – PRICE AND RATE AND MFPS II – PARTICIPANT, SECURITY, AND DISTRIBUTION):

MFPS I or MFPS II activity will be accepted on Monday, October 14, 2019.

FUND/SERV®:

No settlement of Fund/SERV® activity will occur on Monday, October 14, 2019. Fund/SERV® activity will be accepted on Monday, October 14, 2019. The following changes will be made to Fund/SERV® output and settlement schedules for Columbus Day:

T+1 SETTLEMENT TRADE DATE (364 File)	FILE AVAILABLE ON	SETTLEMENT DATE
Fri - Oct. 11	Tues - Oct. 15	Tues - Oct. 15**
Mon - Oct. 14*	Tues - Oct. 15	Tues - Oct. 15**
Tues - Oct. 15	Wed - Oct. 16	Wed - Oct. 16

T+2 SETTLEMENT TRADE DATE (365 File)	FILE AVAILABLE ON	SETTLEMENT DATE
Thurs - Oct. 10	Mon - Oct. 14	Tues - Oct. 15
Fri - Oct. 11***	Tues - Oct. 15	Wed - Oct. 16**
Mon - Oct. 14	Tues - Oct. 15	Wed - Oct. 16**

*Clients will receive a blank 364 Settlement file on Monday, October 14, 2019.

**Double Day Settlement

***Clients will receive a blank 365 Settlement file on Friday, October 11, 2019.

VETERANS DAY HOLIDAY SCHEDULE

National Securities Clearing Corporation and the NYSE & NASDAQ Stock Exchanges will be open, but all U.S. Federal banks will be closed on Monday, November 11, 2019 in observance of Veterans Day. The following changes in NSCC's operations and schedules will be in effect:

ACATS-FUND/SERV[®] INTERFACE:

ACATS-Fund/SERV[®] Interface activity processed on Monday, November 11, 2019 will settle on Tuesday, November 12, 2019. Please note that Funds will **not** receive Record Type 018 records on Friday, November 8, 2019 but will on Monday, November 11, 2019.

DTCC PAYMENT AXIS[®]:

No settlement of DTCC Payment aXis[®] will occur on Monday, November 11, 2019. Activity submitted on Friday, November 8, 2019 through Monday, November 11, 2019 will settle on Tuesday, November 12, 2019.

NETWORKING AND OMNI/SERV:

No Networking Dividend Cash or Activity settlement will occur on Monday, November 11, 2019.

Networking activity submitted on Friday, November 8, 2019 through Monday, November 11, 2019 will settle on Tuesday, November 12, 2019.

Omni/SERV activity will be accepted on Monday, November 11, 2019.

MUTUAL FUND PROFILE SERVICE (MFPS I – PRICE AND RATE AND MFPS II – PARTICIPANT, SECURITY, AND DISTRIBUTION):

MFPS I or MFPS II activity will be accepted on Monday, November 11, 2019.

FUND/SERV[®]:

No settlement of Fund/SERV[®] activity will occur on Monday, November 11, 2019. Fund/SERV[®] activity will be accepted on Monday, November 11, 2019. The following changes will be made to Fund/SERV[®] output and settlement schedules for Veterans Day:

T+1 SETTLEMENT TRADE DATE (364 File)	FILE AVAILABLE ON	SETTLEMENT DATE
Fri – Nov. 8	Tues - Nov. 12	Tues - Nov. 12**
Mon – Nov. 11*	Tues - Nov. 12	Tues - Nov. 12**
Tues – Nov. 12	Wed – Nov. 13	Wed – Nov. 13

T+2 SETTLEMENT TRADE DATE (365 File)	FILE AVAILABLE ON	SETTLEMENT DATE
Thurs - Nov. 7	Mon - Nov. 11	Tues - Nov. 12
Fri – Nov. 8*	Tues - Nov. 12	Wed - Nov. 13**
Mon – Nov. 11	Tues - Nov. 12	Wed - Nov. 13**

*Clients will receive a blank 364 Settlement file on Monday, November 11, 2019.

**Double Day Settlement

***Clients will receive a blank 365 Settlement file on Friday, November 8, 2019.

THANKSGIVING DAY HOLIDAY SCHEDULE

National Securities Clearing Corporation, the New York & NASDAQ Stock Exchanges and all U.S. Federal banks will be closed on Thursday, November 28, 2019 in observance of Thanksgiving Day. The following changes in NSCC's operations and schedules will be in effect:

ACATS-FUND/SERV[®] INTERFACE:

No ACATS-Fund/SERV[®] Interface activity will be accepted on Thursday, November 28, 2019.

FUND/SERV[®]:

No Fund/SERV[®] activity will be accepted on Thursday, November 28, 2019.

DTCC PAYMENT AXIS[®]:

No DTCC Payment aXis[®] activity will be accepted on Thursday, November 28, 2019.

NETWORKING AND OMNI/SERV:

No Networking or Omni/SERV activity will be accepted on Thursday, November 28, 2019.

MUTUAL FUND PROFILE SERVICE (MFPS I – PRICE AND RATE AND MFPS II – PARTICIPANT, SECURITY, AND DISTRIBUTION):

No MFPS I or MFPS II activity will be accepted on Thursday, November 28, 2019.

CHRISTMAS DAY HOLIDAY SCHEDULE

National Securities Clearing Corporation, the NYSE & NASDAQ Stock Exchanges, and all U.S. Federal banks will be closed on Wednesday, December 25, 2019 in observance of Christmas Day. The following changes in NSCC's operations and schedules will be in effect:

ACATS-FUND/SERV[®] INTERFACE:

No ACATS-Fund/SERV[®] Interface activity will be accepted on Wednesday, December 25, 2019.

FUND/SERV[®]:

No Fund/SERV[®] activity will be accepted on Wednesday, December 25, 2019.

DTCC PAYMENT AXIS[®]:

No DTCC Payment aXis[®] activity will be accepted on Wednesday, December 25, 2019.

NETWORKING AND OMNI/SERV:

No Networking or Omni/SERV activity will be accepted on Wednesday, December 25, 2019.

MUTUAL FUND PROFILE SERVICE (MFPS I – PRICE AND RATE AND MFPS II – PARTICIPANT, SECURITY, AND DISTRIBUTION):

No MFPS I or MFPS II activity will be accepted on Wednesday, December 25, 2019.

NEW YEAR'S DAY HOLIDAY SCHEDULE

New Year's Day is Wednesday, January 1, 2020. National Securities Clearing Corporation, the NYSE & NASDAQ Stock Exchanges, and all U.S. Federal banks will be closed on Wednesday, January 1, 2020 in observance of New Year's Day.

ACATS-FUND/SERV® INTERFACE:

No ACATS-Fund/SERV® Interface activity will be accepted on Wednesday, January 1, 2020.

FUND/SERV®:

No Fund/SERV® activity will be accepted on Wednesday, January 1, 2020.

DTCC PAYMENT AXIS®:

No DTCC Payment aXis® activity will be accepted on Wednesday, January 1, 2020.

NETWORKING AND OMNI/SERV:

No Networking or Omni/SERV activity will be accepted on Wednesday, January 1, 2020.

MUTUAL FUND PROFILE SERVICE (MFPS I – PRICE AND RATE AND MFPS II – PARTICIPANT, SECURITY, AND DISTRIBUTION):

No MFPS I or MFPS II activity will be accepted on Wednesday, January 1, 2020.