

## dxFeed C API 5.2.0 Release Notes

### API Changes

We released dxFeed C API 5.2.0 to improve its functionality and simplify its usage. In this version, we revised all records and events that are now synchronized with dxFeed Java API. New version of dxFeed C API is already available on our [website](#).

**Note: These changes are backward incompatible. Please contact [support@dxfeed.com](mailto:support@dxfeed.com) if you have any questions.**

### Event Change List

#### Common changes:

- All bit-manipulating defines used for decoding event flags have been removed. All flags are decoded to appropriate fields of corresponding events by API itself. On-wire flags are stored to `raw_flags` fields, but must be used only for debugging.
- Bit layouts of flags are considered implementation detail now.
- All indexed events has `event_flags` now.
- All index calculations are now compatible with dxFeed Java API.
- All public bit flags are replaced with enums.
- All inner (record-only) fields have been removed from events.
- enum `dxfeed.event.market.Direction` has been added. It is equivalent to Java API `com.dxfeed.event.market.Direction`.
- enum `dxfeed.event.market.PriceType` has been added. It is equivalent to Java API `com.dxfeed.event.market.PriceType`.
- enum `dxfeed.event.market.ShortSaleRestriction` has been added. It is equivalent to Java API `com.dxfeed.event.market.ShortSaleRestriction`.
- enum `dxfeed.event.market.Scope` has been added. It is equivalent to Java API `com.dxfeed.event.market.Scope`.
- enum `dxfeed.event.market.Side` has been added. It is equivalent to Java API `com.dxfeed.event.market.Side`.



- enum `dxfeed.event.market.TradingStatus` has been added. It is equivalent to Java API `com.dxfeed.event.market.TradingStatus`.
- enum `dxfeed.event.market.TimeAndSaleType` has been added. It is equivalent to Java API `com.dxfeed.event.market.TimeAndSaleType`.

#### **dxfeed.trade\_t**

- It is separate structure now, not alias for `dx_trade_t`.
- Fields `sequence` and `time_nanos` have been added.
- Fields `size` and `tick` now have type `int` as they are transmitted.
- Field `day_turnover` has been added.
- Field `direction` has been added.
- Field `is_eth` has been added.
- Field `flags` has been renamed to `raw_flags`.

#### **dxfeed.trade\_eth\_t**

- This event has been removed. Please, use `dxfeed.trade_t` structure instead.
- Fields `tick` and `change` will be zeroed for ETH trades.

#### **dxfeed.quote\_t**

- It is separate structure now, not alias for `dx_trade_t`.
- Fields `time`, `sequence` and `time_nanos` have been added.
- Fields `ask_size` and `bid_size` now have type `int`, as they are transmitted.

#### **dxfeed.summary\_t**

- It is separate structure now, not alias for `dx_summary_t`.
- Field `prev_day_volume` has been added.
- Field `flags` have been renamed to `raw_flags`.
- Fields `day_close_price_type` and `prev_day_close_price_type` now have `dxfeed.price_type_t` type.
- Field `ssr` of `dxfeed.short_sale_restriction_t` type has been added.

#### **dxfeed.profile\_t**

- It is separate structure now, not alias for `dx_profile_t`.
- Field `free_float` has been added.
- Fields `trading_status` and `ssr` have been added.
- Field `flags` has been renamed to `raw_flags`.



#### **dxfeed\_order\_t**

- It is single structure for Order and Spread Order now.
- Field `time_nanos` has been added.
- Field `level` has been removed, use `scope` instead.
- Fields `scope` and `side` have been changed to enums.
- Fields `market_maker` and `spread_symbol` have been merged to one enum.

#### **dxfeed\_time\_and\_sale\_t**

- Field `event_flags` has been added.
- Field `time` has been added.
- Field `size` has been changed to type `int`.
- Field `side` has been changed to proper enum type.
- Fields `is_cancel`, `is_correction` and `is_new` have been removed, please use field type.
- Field `type` has been changed to proper enum type.
- Field `trade_through_exempt` has been added.
- Fields `buyer` and `seller` have been added. These fields are available at limited number of markets.
- Field `flags` has been renamed to `raw_flags`.

#### **dxfeed\_candle\_t**

- It is separate structure now, not alias for `dx_candle_t`.
- Field `event_flags` has been added.

#### **dxfeed\_greeks\_t**

- It is separate structure now, not alias for `dx_greeks_t`.
- Field `greeks_price` has been renamed to `price`.

#### **dxfeed\_theo\_price\_t**

- All fields have been renamed without `theo_` prefix.

#### **dxfeed\_series\_t**

- It is separate structure now, not alias for `dx_series_t`.

#### **dxfeed\_configuration\_t**

- Field `version` has been added.