BOLTPlusOnWeb (BOW)

Application programming interface (API)

Version 1.0.4

Date: 13th Feb 2020

MARKETPLACE
TECH INFRA SERVICES

Agrawal Trade Center, 3rd floor,B wing, Plot No – 62,Sector 11, C.B.D. Belapur, Navi Mumbai – 400 614

Contents

List of Abbreviations

Please find a list of all the abbreviations used in the document. The first time an abbreviation is introduced in the document it is written in brackets after the phrase.

BOW: BOLTPlusOnWeb

BSE: Bombay Stock Exchange

TPS: Third Party Software

API: Application programming interface

UMS: Unsolicited Message Structure

BBO: Best Bid and Offer

BE: Back End

SPOS: Special Pre Open Session

PCAS: Periodic Call Auction Session

OCO: One Cancels the Other Order

SLB: Securities Lending and Borrowing

Introduction

BOLTPlusOnWeb facilitates trading in multiple segments using a Trading System called as **BOLTPlusOnWeb (BOW)**. MarketPlace Tech Infra Services is introducing an API for equity, equity derivatives, currency derivatives, commodity derivatives, SLB, DEBT, REPO and ITP segments.
This document describes valid messages that need to be communicated between TPS and BOW. The message structure between TPS and the BOW is proprietary and may or may not be the same as the Exchange Formats.
The current BOW API version used for all market is 1.0. The API is a single document serving for all the supported Segments mentioned above.

Purpose

The purpose of this document is to provide the documentation of the Application Programming Interface to facilitate Third party vendors to develop their Front End solutions which will able to interact with BOW Server system. Front End will be developed by vendors as per their requirements which will use the BOW server as order routing system and to use the compressive consolidated risk management system.

This document describes the main concepts of the BOW Server as well as all message formats.

Audience

The main target group are technical staff within the participant firms. Chapter Message Formats provides the detailed message formats and fields.

Technical Overview

The BOW API has the following main characteristics:

Message Communication

The BOW API is asynchronous message based Application interface document. TPS (Third Party Software) system has to send the request in specified formats and responses need to process as per mentioned in respective message formats.
The connection between the TPS and the BOW system is established via a HTTPS/TCP protocol. TPS need to established first (Default) HTTPS connection with provided URL.
One TCP connection is required with Broadcast Server for receiving Broadcast on TCP channel.
There are two mode of Order Placement

1) Order placement through HTTPS: - In this case Interactive Order Confirmations and trade confirmations will received on Broadcast TCP connection.
2) Order Placement through TCP: - TCP connection needs to establish with Order Gateway for sending Order request as well as receiving Order/Trade Confirmations.

Connection Oriented

The BOW API is a session oriented interface. TPS system will receive the Session Key in Login response from BOW System. TPS system needs to manage same session key through out Session and need to send this session key in all messages.

The BOW API provides information per connection via personal enquiry messages. This includes trade notifications, order enquiry, Net – positon etc.

Service Description

Party Identification

The BOW has a Member/User concept. Each member can have a many users under admin terminal. The Admin terminal can do only admin activities like creating users and managing risk for trading members/clients, whereas the remaining users allowed to trade.

Security/Contract Identification

The security/Contract should be identified by the instrument id (Internal Id of security/Contract). BOW System is generating the Internal Contract Identification which is unique for each segment. The list of instrument ID and their specification is available in the contract master files. The security master file format and the sample contract master files given below. The format of BOW contract Master is different than Exchange provided Contract master. BOW Contract Master will be available for download through FTP/HTTPS. Masters files are in SQL Lite, hence TPS user's needs to use SQL Lite for reading the Contact Master files.

Scrip/Contract Master Schema Format

Scrip Contract master is available on FTP on BOW Server. This is consolidated master.db file in SQLLite. For each Market Segment different table is created. On new market segment addition one more table will be added in this section.

1.1.1 BSE & NSE (Equity) Security Schema Format

Table Name: SQLiteSecurities

Field Name	Type	Description	Values, meanings, Validations
SCID	bigint	Contract internal ID	e.g. 1
SCSymbol	varchar(30)	Symbol / Asset Code defined for each asset for BSE & NSE.	e.g. ABB
SCSeries	char(10)	Series Id	Equity: EQ/BE
SCCompanyName	varchar(50)	Company details name	e.g. ACC LTD.
BSCScripCode	bigint	Contract/Scrip code	e.g. 500002
NSCToken	bigint	NSE Internal Token ID	BSE EQUITY = -1 NSE Equity = NSE Token
BSCBoardLot	bigint	This field contains the regular lot quantity for BSE. Order quantity must be a multiple of this boardlot/regular lot quantity.	Lot Quantity as mentioned in BSE Exchange Scrip master.
NSCBoardLotQuantity	bigint	This field contains the regular lot quantity for NSE. Order quantity must be a multiple of this boardlot/regular lot quantity.	Lot Quantity as mentioned in NSE Exchange Scrip master.
BSCTickSize	bigint	Tick size of the BSE Instrument.	Price should be placed in multiple of Tick Size
NSCTickSize	bigint	Tick size of the NSE Instrument.	Price should be placed in multiple of Tick Size
BSCScriptId	varchar(50)	Unique symbol / Asset Code defined for each asset of BSE.	e.g. ABB
BSCScriptName	varchar(50)	Company name for BSE & NSE.	ABB INDIA LIMITED(Normal CallAuction)
BSCGroupName	Char(10)	Equity trading group for BSE Instruments.	Equity: A
SCSequenceId	bigint	Contract sequence id	e.g. 1
ISIN	Varchar(30)	ISIN number of security	e.g. INE117A01022
BSCFIELD4	Varchar(254)	Graded Surveillance Measures (GSM) values as mentioned by NSE/BSE.	e.g. 100
Message	varchar	Alert Message for GSM/ASM/SMS scrips.	

1.1.2 BSE Contracts (Derivatives) Schema Format

Table Name: SQLiteBSEContracts

Field Name	Type	Description	Values, meanings, Validations
BCNID	bigint	Internal id	e.g. 314882
BCNToken	bigint	Internal Token ID	e.g. 836675
BCNInstrumentType	varchar(10)	Instrument Type	FUTIDX FUTSTK OPTIDX OPTSTK
BCNProductType	varchar (6)	Product Type	Spread = S Monthly = M Half yearly =H Quarterly = Q Weekly = W
BCNAssetCode	varchar (30)	Unique symbol / Asset Code defined for each asset. Used for Display purpose in Front End Applications.	e.g. BSX
BCNExpiryDate	bigint	This date is the actual last trading date of the Product. Difference in time in seconds with reference from 01-01-1970.	e.g. 1535587200
BCNDisplayExpiryDate	varchar (50)	This date is the actual last trading date of the Product.MMM DD YYYY format	e.g. Dec 27 2018
BCNContractMonth	varchar (14)	Filler	N. A.
BCNStrikePrice	bigint	Strike price of option contract multiplied by 100.	2960000
BCNCallPut	varchar (2)	Call/Put	C/P
BCNOptionStyle	varchar (2)	CALL=CE PUT=PE	CE/PE
BCNStartDate	bigint	Start date of the contract.	1529539200
BCNMarketLot	bigint	Order quantity must be a multiple of this market lot quantity.	e.g. 25
BCNCeilingDepth	bigint	Blank	e.g. -999
BCNSeriesName	varchar (50)	Series Name	BSX18DEC29600.00CE
BCNSeriesCode	varchar (30)	Series Code	BSX8DC29600
BCNPQFactor	varchar (50)	PQ Factor	e.g. 350
BCNTradingUnit	varchar (50)	Filler	Filler
BCNTickSize	varchar (8)	Price should be in multiple of tick size	e.g. 5
BCNSequenceId	bigint	Contract internal Sequence Id	e.g. 1
BCNCapacityGroup	bigint	Capacity Group	e.g. 350
BCNInBannedPeriod	char(1)	Filler	Filler
BCNField3	varchar(30)	Underlying Asset Code	SENSEX
BCNAssetId	bigint	Asset Id	e.g. 1

1.1.3 BSE Commodity Contract Schema Format

Table Name: SQLiteBSECommodityContracts

Field Name	Type	Description	Values, meanings, Validations
BCCID	bigint	Contract internal ID	e.g. 8
BCCSequenceId	bigint	Contract internal sequence ID	e.g. 1
BCCInstrumentName	varchar(10)	This field contains the type of the instrument.	e.g. FUTCOM OPTFUT
BCCToken	bigint	Exchange Instrument ID	e.g. 14000025
BCCUnderlyingAsset	bigint	ID of the Instrument for the underlying asset of this contract.	e.g. 800
BCCContractCode	varchar(30)	Unique symbol / Asset Code defined for each asset.	GOLD
BCCStrikePrice	bigint	Strike price of option contract multiplied by 100	e.g. 2990000
BCCOptionType	char(2)	Type of Option i.e. Call or Put	CALL=CE PUT=PE
BCCExpiryDate	bigint	This date is the actual last trading date of the Product in terms of seconds from 01-01-1970 00:00:00 hrs.	e.g. 1538697600
BCCDisplayExpiryDate	varchar(50)	This date is the actual last trading date of the Product in MMM DD YYYY format.	Oct 5 2018
BCCContractDescription	varchar(30)	This field contain details about contract.	EX-AHMEDABAD
BCCQuotationUnit	bigint	Unit in which price for the product is quoated.	e.g. 10
BCCQuotationMetric	varchar(6)	Quotation Metric for which price to be entered. Eg. Quote to be done for 10GRMS of Gold.	GRMS KGS BBL
BCCBoardLot	bigint	This field contains the board lot quantity. The regular lot order quantity must be a multiple of this quantity.	e.g. 1
BCCPriceTick	bigint	Price tick	e.g. 100
BCCPQFactor	varchar	PQ factor, Internal Use for display.	10 GRMS
BCCTradingUnit	varchar(254)	Unit in which trading is done. For e.g. Gold is quoted per 10Gms but traded in Kgs	KGS
BCCGeneralNumerator	decimal(9)	General Numerator. Value to be used for deriving Trade value.	e.g. 100
BCCGeneralDenominator	decimal(9)	General Denominator. Value to be used for deriving Trade value.	e.g. 1
BCCDecimalLocator	decimal(9)	Decimal locator	e.g. 2
BCCInstrumentId	bigint	Instrument ID	e.g. 10010000
BCCProductType	varchar(2)	Product type	e.g. N

1.1.4 BSE Currency Contract Schema Format

Table Name: SQLiteNTACurrencyContracts

Field Name	Type	Description	Values, meanings, Validations
NTACCID	bigint	Contract Internal id	e.g. 15056
NTACCToken	bigint	NTA Internal Token ID	e.g. 1009490
NTACCInstrumentType	varchar(10)	Instrument code	FUTCUR FUTIRT FUTIRD OPTCUR OPTIRD
NTACCProductType	varchar(6)	Product type	Spread = S Monthly = M Quarterly = Q Weekly = W
NTACCAssetCode	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. USDINR
NTACCExpiryDate	bigint	This date is the actual last trading date of the Product in terms of seconds from 01-01-1970 00:00:00 hrs.	e.g. 1530057600
NTACCDisplayExpiryDate	varchar(50)	This date is the actual last trading date of the Product. MMM DD YYYY format	Aug 29 2018
NTACCContractMonth	varchar(14)	Filler	Filler
NTACCStrikePrice	bigint	Strike price of option contract multiplied by 10,000	e.g. 645000
NTACCCallPut	char(1)	Type of Option i.e. Call or Put	Call = C, PUT= P
NTACCOptionStyle	char(2)	Option Type Call or Put	CALL=CE PUT=PE
NTACCStartDate	bigint	Start date of the contract.	NA
NTACCMarketLot	bigint	Market lot	e.g. 1
NTACCCeilingDepth	bigint	Not Applicable	e.g. -999
NTACCSeriesName	varchar(40)	symbol with expiry date	USDINR18AUGFUT
NTACCSeriesCode	varchar(30)	Filler	Filler
NTACCPQFactor	varchar(50)	PQ Factor	e.g. 1
NTACCExpirationTime	varchar(50)	Contract Expiry Time	12:00:00
NTACCTickSize	bigint	Tick size of the product.multiplied by 10,00000	e.g. 25000
NTACCSequenceId	bigint	Contract internal sequence Id	e.g. 1
NTACCScriptID	bigint	Contract unique Instrument ID	e.g. 1009490
NTACCCapacityGroup	bigint	Capacity Group	e.g. 1
NTACCMultiplier	bigint	Multiplier	e.g. 1000

Goto Index

1.1.5 BSESLB Contract Schema Format

Table Name: SQLiteSLBContracts

Field Name	Type	Description	Values, meanings, Validations
SCID	bigint	Contract Internal id	e.g. 25134
SCScripCode	bigint	Contract unique Scrip code	e.g. 369292
SCScripId	varchar(30)	Contract Scrip id	DEEPAKFERTJULSEP18-MCF
SCISIN	varchar(12)	ISIN	e.g. INE501A01019
SCProductId	bigint	Product id of Equity Scrip	500645
SCProductCode	varchar(15)	Product code	DEEPAKFERTJULSEP18-MCF
SCScripStatus	varchar(1)	Contract Scrip Status	Active – A Inactive - I
SCMarketLot	bigint	Market lot	e.g. 1
SCNoOfDays	bigint	Number of days	e.g. 431
SCStartDate	datetime(8)	Start date of the contract.YYYY-MM-DD	2017-07-03
SCLastTrade_Date	datetime(8)	Last trade date of the security. YYYY-MM-DD	2019-07-03
SCExpiryDate	datetime(8)	This date is the actual last trading date of the Product. YYYY-MM-DD format	2018-09-06 00:00:00.000
SCContractMonth	varchar(6)	Contract Month. YYYYMM	e.g. 201809
SCRowstate	bigint	Status of the Contract	Active=1 deleted<1
SCInstrumentName	varchar(7)	Instrument Name	SLBINS
SCLongExpiryDate	datetime	This date is the actual last trading date of the Product in terms of seconds from 01-01-1970 00:00:00 hrs.	1536192000
SCDisplayExpiryDate	varchar(25)	This date is the actual last trading date of the Product. MM-DD-YYYY format	Sep 6 2018
SCStrikePrice	bigint	N.A.	
SCOptionType	varchar(3)	N.A.	
SCTickSize	bigint	Tick size of the product.	e.g. 1
SCRollOver	varchar(30)	Roll over details	R,0,0
SCFiller1	varchar(50)	Short name of the Product	DFPJULSEP18RMCF
SCFIELD3	varchar(30)	Monthly for Closure - MCF Monthly non forclosure – MNF	MCF, MNF

1.1.6 BSEITP Contract Schema Format

Table Name: SQLiteITPContracts

Field Name	Type	Description	Values, meanings, Validations
ITPID	bigint	Contract Internal id	e.g. 1
ITPScripCode	bigint	Contract unique Scrip Code	e.g. 780001
ITPScripID	varchar(30)	Contract Scrip ID	e.g. JDL
ITPScripName	varchar(100)	Contract Scrip Name	JAISUKH DEAL
ITPScripISIN	varchar(12)	Script ISIN	INE190P01019
ITPGroupName	varchar(2)	Group Name	e.g. IP
ITPCompanyCode	bigint	Company Code	e.g. 10458
ITPInstrumenName	varchar(6)	Instrument code	ITPINS
ITPExpiryDate	bigint	This date is the actual last trading date of the Product in terms of seconds from 01-01-1970 hrs.	1707523200
ITPDisplayExpiryDate	varchar	This date is the actual last trading date of the Product. MM-DD-YYYY format	Feb 10 2024
ITPStrikePrice	bigint	NA	
ITPOptionType	char	NA	
ITPMarketLot	bigint	NA	e.g. 1
ITPTickSize	bigint	Tick size of the product.	e.g. 100
ITPSequenceID	bigint	Contract internal sequence ID	e.g. 1

1.1.7 BSEREPO Contracts Schema Format

Table Name: SQLiteBSERepoContracts

Field Name	Type	Description	Values, meanings, Validations
BRCId	bigint	Contract Internal id	e.g. 27249
BRCToken	bigint	Contract Token ID	e.g. 1606700
BRCSymbol	varchar(20)	Unique symbol / Asset Code defined for each asset.	CDA1+20TO360
BRCBasketId	bigint	Unique symbol ID	e.g. 3
BRCTransferable	varchar(2)	T- Transferable /NT- Non Transferable security	T/NT
BRCRepoTenure	bigint	Repo Tenor (In Days)	e.g. 5
BRCIssuerType	varchar(10)	Issuer Type	BANK
BRCTickSize	numeric(10,0)	Tick size of the product.	e.g. 1
BRCMarketLot	bigint	Market Lot	e.g. 100
BRCMultiplierLotSize	bigint	Multiplier Lot Size	e.g. 10000
BRCMaxOrderSize	bigint	Max order size	e.g. 999999999
BRCSettlementType	varchar(2)	Settlement type	T0 or T1
BRCStartDate	bigint	Start date of the contract.	Blank
BRCStartTime	bigint	Blank	Filler

BRCDecimalLocator	bigint	Precision(Value of Decimal locator)	e.g. 2
BRCEndDate	bigint	Last date of the security	Blank
BRCEndTime	bigint	Filler	Filler
BRCMaturityDate	bigint	This date is the actual last trading date of the Product in terms of seconds from 01-01-1970 00:00:00 hrs.	1535932800
BRCTradingStatus	char(2)	Trading Status	e.g. A
BRCSecurityType	char(2)	SecurityType	e.g. CD
BRCDisplayMaturityDate	varchar(50)	This date is the actual last trading date of the Product. MM-DD-YYYY format	Aug 21 2018

1.1.8 NSE Derivatives Contract Schema Format

Table: SQLiteContracts

Field Name	Type	Description	Values, meanings, Validations
NCNID	bigint	Contract Internal id	e.g. 487796
NCNToken	bigint	Contract Internal Token ID	e.g. 44979
NCNInstrumentName	varchar(10)	Instrument name	FUTSTK FUTIDX FUTIVX OPTSTK OPTIDX
NCNSymbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. INDIAVIX
NCNExpiryDate	bigint	This date is the actual last trading date of the Product. Date Time from 01-01-1980 in seconds.	e.g. 1293892200
DisplayExpiryDate	varchar(50)	This date is the actual last trading date of the Product. MMM-DD-YYYY format	Aug 14 2018
NCNStrikePrice	bigint	Strike price of option contract.	Option Contract: Strike Price * 100
NCNOptionType	char(10)	CALL=CE PUT=PE Future contract = XX	This field contains the option type. Option Contract = CE/PE
NCNBoardLotQuantity	bigint	The regular lot order quantity must be a multiple of this quantity.	e.g. 900
NCNTickSize	bigint	Tick size of the product.	e.g. 25
NCNName	varchar(50)	Contract name	INDIAVIX18AUGFUTW2
NCNExerciseStartDate	bigint	Exercise Start Date in seconds from 01-01-1980	1308960000
NCNExerciseEndDate	bigint	Exercise End Date in seconds from 01-01-1980	1309012200
NCNSCID	bigint	N/A	e.g. -1

NCNSequenceId	bigint	Contract sequence id	e.g. 464
NCNField1	bigint	Filler	e.g. Filler
NCNPRODUCTTYPE	Varchar(10)	Product type	e.g. S
NCNInBannedPeriod	varchar	Filler	e.g. Filler

1.1.9 NSE Commodity Contract Schema Format

Table Name: SQLiteNSECommodityContracts

Field Name	Type	Description	Values, meanings, Validations
NCCID	bigint	Contract Internal id	e.g. 19
NCCToken	bigint	NTA Internal Token ID	e.g. 1008
NCCAssetToken	varchar(30)	Asset Token	e.g. 1
NCCInstrumentName	varchar(10)	Instrument code	FUTBLN FUTENR UNDCOM
NCCSymbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. GOLD
NCCExpiryDate	bigint	This date is the actual last trading date of the Product in terms of seconds from 01-01-1980 00:00:00 hrs.	e.g. 1530057600
NCCDisplayExpiryDate	varchar(50)	This date is the actual last trading date of the Product. MMM DD YYYY format	Feb 5 2020
NCCStrikePrice	bigint	Strike price of option contract multiplied by 10,000	e.g. 645000
NCCOptionType	char(2)	Option Type Call or Put	Future Contract= XX CALL=CE PUT=PE
NCCPrecision	int	Price precision Indicator. (Value of Decimal locator)	4
NCC MinimumLotOuantity	bigint	Minimum lot quantity	1
NCCBoardLotQuantity	bigint	This field contains the board lot quantity. The regular lot order quantity must be a multiple of this quantity	1
NCCTickSize	bigint	Tick size of the product.	e.g. 10000
NCCLowPriceRange	bigint	Low price change	396550000
NCCHighPriceRange	bigint	High price change	421070000
NCCMultiplier	bigint	Multiplier	100
NCCName	varchar(40)	Symbol with expiry date	GOLD20FEBFUT
NCCSymbolForAsset	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. GOLD
NCCInstrumentOfAsset	char(6)	Instrument of asset	Blank
NCCBasePrice	bigint	Base price	408810000

NCCTradingUnit	varchar(30)	Trading unit	GMS
NCCPriceQuote	Bigint	Price quote	10
NCCTradingLot	Bigint	TradingLot	1000

1.1.10 NSECurrency Contracts Schema Format

Table Name: SQLiteNseCurrencyContracts

Field Name	Type	Description	Values, meanings, Validations
NCCID	bigint	Contract Internal id	e.g. 6285
NCCSEQUENCEID	bigint	Contract internal sequence id	e.g. 2174
NCCCONTRACTTOKEN	bigint	Contract internal token number	e.g. 1404
NCCINSTRUMENTNAME	varchar(10)	Instrument name	UNDIRC UNDIRD INDEX OPTCUR FUTIRT FUTIRC FUTCUR UNDIRT UNDCUR
NCCSYMBOL	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. EURINR
NCCEXPIRYDATE	bigint	This date is the actual last trading date of the Product. Date time in seconds from 01-01-1980.	1225463400
DISPLAYEXPIRYDATE	varchar(50)	This date is the actual last trading date of the Product. MM-DD-YYYY format	Aug 29 2018
NCCSTRIKEPRICE	bigint	Strike price of option contract multiplied by 100	
NCCOPTIONTYPE	char(10)	CALL=CE PUT=PE	CE or PE
NCCBOARDLOTQTY	bigint	The board lot quantity. The regular lot order quantity must be a multiple of this quantity.	e.g. 1000
NCCTICKSIZE	bigint	Tick size of the product.	e.g. 25000
NCCEXERCISESTARTDATE	bigint	Exercise Start Date in seconds from 01-01-1980	e.g. 1225238400
NCCEXERCISEENDDATE	bigint	Exercise End Date in seconds from 01-01-1980	e.g. 1225290600
NCCMultiplier	bigint	Multiplier	e.g. 1000

1.1.11 NCDEX Contracts Schema Format

Table Name: SQLiteNCDEXContracts

Field Name	Type	Description	Values, meanings, Validations
NCDID	bigint	Contract Internal id	e.g. 761
NCDToken	bigint	Internal Token ID	e.g. 1761
NCDInstrumentName	varchar(10)	Instrument name	COMDTY FUTCOM OPTFUT
NCDSymbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. CASTOR
NCDExpiryDate	bigint	This date is the actual last trading date of the Product. Date time in seconds from 01-01-1980.	e.g. 1241049600
NCDDisplayExpiryDate	varchar(50)	This date is the actual last trading date of the Product. MM DD YYYY format	e.g. Aug 20 2018
NCDStrikePrice	bigint	Strike price of option contract multiplied by 100	e.g. -1
NCDOptionStyle	char(2)	Option Type i.e. Call or Put	CALL=CE PUT=PE
NCDBoardLotQuantity	bigint	The board lot quantity. The regular lot order quantity must be a multiple of this quantity.	e.g. 10
NCDTickSize	bigint	Tick size of the product.	e.g. 100
NCDName	varchar(50)	Contract scrip Name	e.g. CASTOR20AUG2018
NCDExerciseStartDate	bigint	Start date of the contract date in seconds from 01-01-1980.	Blank
NCDExerciseEndDate	bigint	Last date of the security date in seconds from 01-01-1980.	Blank
NCDPriceNumerator	bigint	Price Numerator	e.g. 10
NCDPriceDenominator	bigint	Price Denominator	e.g. 1
NCDPriceUnit	varchar(50)	Price Unit	e.g. Rs/Quintal
NCDQuantityUnit	varchar(50)	Quantity Unit	e.g. MT
NCDDeliveryUnit	varchar(14)	Delivery Unit	e.g. MT
NCDDeliveryLotQuantity	bigint	Delivery Lot Quantity	e.g. 10
NCDSequenceId	bigint	Contract Sequence Id	e.g. 35
NCDTokenString	bigint	Ncdex Token	10

1.1.12 MCX Contracts Schema Format

Table Name: SQLiteMCXContracts

Field Name	Type	Description	Values, meanings, Validations
MCID	bigint	Contract Internal id	e.g. 20044
MCSequenceId	bigint	Contract internal Sequence id	642
MCInstrumentName	varchar(10)	Instrument name	COM FUTCOM AUCSO OPTFUT
MCToken	bigint	Contract Token ID	e.g. 211694
MCUnderlyingAsset	bigint	ID of the Instrument for the underlying asset of this contract.	e.g. 209964
MCContractCode	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. GOLD
MCStrikePrice	bigint	Strike price of option contract multiplied by 100.	e.g. 2880000
MCOptionType	char(2)	CALL=CE PUT=PE	CE or PE
MCExpiryDate	bigint	This date is the actual last trading date of the Product in seconds from 01-01-1970	e.g. 1577923199
MCDisplayExpiryDate	varchar(50)	This date is the actual last trading date of the Product. MMM DD YYYY format	e.g. Jan 29 2019
MCContractDescription	varchar(30)	Contract details Description	NA
MCQuotationUnit	bigint	Unit in which price for the product is quoted.	e.g. 10
MCQuotationMetric	varchar(6)	Quotation Metric for which price to be entered. Eg. Quote to be done for 10GRMS of Gold.	e.g. GRMS
MCBoardLot	bigint	This field contains the board lot quantity. The regular lot order quantity must be a multiple of this quantity.	e.g. 1
MCPriceTick	bigint	Price should be multiple of tick size	e.g. 50
MCPQFactor	varchar(10)	PQ factor, Internal Use for display.	e.g. 10 GRMS
MCTradingUnit	varchar(250)	Unit in which trading is done. For e.g. Gold is quoted per 10Gms but traded in Kgs	e.g. 1000
MCGeneralNumerator	decimal(18,0	General Numerator. Value to be used for deriving Trade value.	e.g. 100
MCGeneralDenominator	decimal(18,0	General Denominator. Value to be used for deriving Trade value.	e.g. 1
MCField3	varchar(50)	N/A	e.g. KGS

1.1.13 Order Identifiers

TPS should use the internal order ID (Which will be given to TPS in order Entry reply) for order modification, cancellation and order related message enquiry. The exchange order ID will also available in Order Response which is unique per product. Order Remarks field also available in Order Response which is also unique for each Order.

1.1.14 Order Types

The following order types are supported via the BOW API interface:

Order Type	Description
Market	An order for buying or selling at the best price prevailing in the market at the time of submission of the order. Any unexecuted portion of the order remains as a pending order till it is matched or its duration expires. The market protection percentage provides protection to market orders from unfair execution prices. The protection percentage will be applied on the first trade price of the order and the worst price is arrived at. The subsequent execution of the order will happen till the worst price if opposite side available else will be converted to limit order at the last executed price. Protection Percentage field is available only for BSE Segments.
Limit	An order for buying or selling at a limit price or better, if possible. Any unexecuted portion of the order remains as a pending order till it is matched or its duration expires.
Stop (Market)	The stop loss order placed will not be visible to the market. Once it is triggered it will behave like a market order. The Stop-loss orders will be triggered on either the new trade price generated is equal or better than the trigger price or the trigger price is equal to the BBO.
Stop (Limit)	The stop loss order placed will not be visible to the market. Once it is triggered it will behave like a limit order. The Stop-loss orders will be triggered on either the new trade price generated is equal or better than the trigger price or the trigger price is equal to the BBO.
One-cancels-the-other(OCO)	An order that combines the functionality of a limit order and a stop (market) order, expressed as a single order. Traders will specify a limit price and a trigger price as part of one order. If the limit price is reached then the stop-loss order will be cancelled and vice versa. This applicable only for BSE Segments.

Retention type	Description
Good-for-day (Day)	All orders are assumed to be Good-for-session orders unless otherwise specified. The validity of a day order ends at the close of that day's post closing trading period i.e. at the end of post closing session. In post closing session if the order price is worse than the close price determined in closing session then such orders will be cancelled. The Good-for–day orders will be accepted in all segment, however the functional relevance of these orders are restricted to Equity segment.
Immediate or Cancel (IOC)	An IOC order is to be filled immediately, either completely or to the extent possible; the portion that cannot be filled immediately is cancelled.
Good-for-session	All orders are assumed to be session unless otherwise specified. The validity of a day order ends at the close of that day's continuous trading period i.e. at the end of continuous session.
Recall/Early Return	These are special type of buying and selling which are applicable for SLB market only. They are validated against existing positions. Recall is validated against existing sell position in that contract. Early Return is validated against existing buy position in that contract.

1.1.15 Order Quantity

Participants need to specify two quantities in the order request. The field Qty in order request will determine the total order quantity desired by the user. The field disclosed Qty in order request will determine the quantity desired by the user to be shown in the market data**.**

1.1.16 Cancellation

An order may be cancelled by the order initiating user. The exchange also supports on-behalf cancellation by the admin user using the admin terminal.

1.1.17 Modification

An order must be modified by the order initiating user only.

Orders that have been completely filled cannot be modified.

The following order attributes cannot be modified.

- Instrument Code, Buy / Sell Flag

The following restrictions apply to the modification of the field Order Type:

- A Limit Order may only be modified to a Market Order
- A Stop Limit Order can be modified to Stop Market Order
- A Stop Limit Order can be modified to Regular Market Order
- A Stop Limit Order can be modified to Regular Limit Order
- A Stop Market Order can be modified to Stop Limit Order

- A Stop Market Order can be modified to Regular Market Order
- A Stop Market Order can be modified to Regular Limit Order

An order that is modified will lose its time priority If

- Order Qty is increased, or
- Order Type is changed, or
- Client code id changed or
- Order is “Triggered by system”
- Disclosed Qty is increased

1.1.18 Total Order Quantity Modification

TPS need to specify the Absolute quantity when modifying the field Qty.The modification quantity will be replaced with current pending quantity.

1.1.19 Disclosed Quantity Modification

TPS need to specify the absolute quantity when modifying the field disclosed Qty. The disclosed quantity at exchange will be replaced with the new disclosed quantity.

1.1.20 Order Cancellation Notification

The pending orders of a participant at the exchange can be cancelled due to various reasons like product suspension, user-suspension, member-suspension, RRM, MWPL RRM etc. and users are notified by order-by-order cancellation.

1.1.21 Location ID

The Location Id of the end-user who is placing the orders should be registered with the Exchange. Location ID can be set in BOW Admin Terminal for users as per respective exchange formats.

1.1.22 Risk Control

Risk Controls will be managed by BOW RMS Server which can be set by BOW Admin Terminal. Separate User Manual available for BOW Admin Terminal for details.

1.1.23 Price

For equity, equity derivatives, commodity derivatives, SLB, Debt, REPO and ITP, the BOW system supports 2 decimal price points. While sending messages the user needs to multiply the price by 100.

In case of Currency derivatives system supports 4 decimal price points. All price fields in messages are in paise. While sending messages the user needs to multiply the price by 10000.

1.1.24 Identification and Authentication

The BOW supports two level of Authentication (2FA).
TPS needs to send password & 2FA image with a user logon request to establish a connection with BOW system.

1.1.25 Password Management

A password is required to be sent in the Logon Request. The BOW system enforces certain rules on password required for authentication.

Maximum 3 consecutive attempts with incorrect password are allowed. The account will get locked with 4th attempt of login with incorrect password. In case the account is locked then the account is required to be unlocked by forgot password request in which password will be sent on registered email id of the user specified by BOW Admin Terminal. Also password will also expire immediately which needs to be changed.

Additionally, the account password will expire after 14th day from the date when the password was last modified. In all cases of password expiry, it is required that the account password is changed by the application post login is successful. In case the user fails to change the password then the user will not be allowed to login with expired password in subsequent login attempt. In such case password is required to be unlocked by a password reset action which can be done by the administrator through BOW Admin Terminal.

The password for user can be changed using Change Password Request.
There are certain policies enforced on the password that can be set for an account. They are:

- The password should be minimum 8 characters and maximum 12 characters long
- The password should be alpha numeric
- The password cannot be blank.
- The last 3 password should not be same as new password.
- The passwords should be changed after 14 days
- Following special characters are allowed in the password
  ! , # , $, % , & , * , + , - , / , = , @

1.1.26 IP Addresses and Ports

The IP and Port information to connect BOW Systems will be provided separately.

The TPS, in order to connect to the BOW, must set up a HTTP, TCP connection with the port number provided.

Separate TCP Connection required with BOW Broadcast Server to receive the broadcast. Broadcast will receive on TCP connection on the basis of subscription (scrips/Contracts) provided by TPS system.

Connection Layer

1.1.27 BOW Message Formats

BOW messages have a defined order of fixed-length fields. The repeating groups consist of a number of records fields (indicating the number of record elements). In general, repeating groups are at the end of the BOW messages.

1.1.28 Logon

The TPS application needs to open a HTTP/TCP connection to BOLTPlusOnWeb during start-up through user logon request.

The first message to be sent on the connection must be the user logon message. Any other message sent would result in rejection of message.

1.1.29 Logout

The member/user may log out the connection using User Logoff Request message.

After a successful user logout, the TPS should shut down the connections and close the sockets.

1.1.30 Disconnection

The TPS is connected to BOW via a HTTP/TCP socket. All transactions of the user take place of the same connection. At times in normal course of trading the user may experience a socket disconnection. The disconnection takes place for various reasons. User need to re-establish the connection with the BOW System.

Message Formats

This chapter provides details on the application messages used by the BOW system. Information on data type is provided. Messages sent by TPS may be rejected due to business level validations. Same will be sent in response along with rejection message details.

There are basic three types of messages in API as described below.

- **Requests and Replies** – Requests are sent by TPS to BOW via HTTPS/TCP. BOW Server sends back the replies on same channel. BOW system will send the SessionKey in Login Response which must be sent in every TCP/HTTPS request sent from TPS.

- **UMS (Unsolicited Messages)** – BOW system sends unsolicited messages to TPS based on unsolicited messages received from respective exchanges. If Admin Users does admistrative activities like change of deposits, Limits etc. will also be sent to TPS as unsolicited messages.

- **Broadcasts** – BOW system broadcasts common market/trading information to all the connected users through TCP Chanel. Broadcast receives from exchange will forward to the TPS terminals based on subscription of the scrips/contracts for respective user.

List of Broadcast Messages

59: Exchange News BroadCast
60: MBP Arrived (Best Five)
61: Marketwatch (Touch Line)
63: Alert Messages
69: Index Message
71: Market Open Messages

Detail list of Exchange, Market and Segments Supported

Field Name	Values, Meanings, Validations
Exchange ID	All= 0 BSE= 1 NSE= 2 NCDEX= 3 MCX= 5
Market ID	All= 0 EQUITY= 1 DERIVATIVE= 2 COMMODITIES= 3 CURRENCY= 4 MUTUALFUND= 5 SLB= 6 OFS= 7 DEBT= 8 REPO = 9 ITP= 10
Segment ID	All= 0 Equity = 1 Equity/Currency Derivative Futures Intraday = 2 Equity/Currency Derivative Options Intraday = 3 Commodity Futures Intraday = 5 Commodity Options Intraday = 6 Equity & Currency Derivative Futures CNC = 10 Equity & Currency Derivative Options CNC = 11 Commodity Futures CNC = 13 Commodity Options CNC = 14

Data Types

The field types in this document are to be interpreted as follows –

- **bigint -** This is binary representation of a number which are 8 bytes respectively.
- **int –** This is binary representation of a number which are 4 bytes respectively.
- **char(XX) –** This is null terminated and yet a fixed length field of character string of upto XX number of bytes. It should be left justified. If the value overflows the length of the field, it gets truncated and no null character may come in this case.
- **varchar(n)** - Holds a variable length string (can contain letters, numbers, and special characters). The maximum size is specified in parenthesis. Can store up to 255 characters.
- Rate wherever included, should be in paise.
- **All communications are in Ascii Format. If data type is mentioned in the document are other than char, Varchar need to convert it to ASCII format while communicating with BOW System. Other Numeric Data types mentioned in API document are for reference purpose and can be used accordingly for TPS application storage.**

Login in BOW

1.1.31 User Login Request

Message Name	LoginServlet
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **Login in BOW application.**

Field Name	Type	Description	Values, meanings, Validations
USBackOfficeId	varchar(30)	Blank	Blank
USLOGINID	varchar(30)	This field should contain the user ID of the user/broker intends to Login to BOW system.	Client1-T9065
USPassword	varchar(20)	User login password	e.g. m.123456
USTransactionPassword	varchar(20)	User transaction password	Blank
version	varchar(10)	FE Version Number along with TPS vendor Code allocated for BOW.	For e.g. ZHABALA_1.0
SecuritiesMaxSequenceId	varchar(10)	Security updated sequence ID	1
NSEContractsMaxSequenceId	varchar(10)	NSE contracts max updated sequenceId	82
NcdexContractsMaxSequenceId	varchar(10)	Ncdex contracts max updated sequenceId	60
MCXContractsMaxSequenceId	varchar(10)	NMCE contracts max updated sequenceId	139
BSEContractsMaxSequenceId	varchar(10)	BSE contracts max updated sequenceId	1
BSECurrencyContractsMaxSequenceId	varchar(10)	BSE contracts max updated SequenceId	1
NSECurrencyContractsMaxSequenceId	varchar(10)	NSE contracts max updated updated SequenceId	2125
enable2FA	char(1)	Two factor authentication Enable=Y	Y
VenderCode	bigint	Vendor code will be provided by BOW team.	e.g. 1_ABC
SessionKey	varchar(62)	Unique key for identify user session	Blank
Thick Client	char(1)	Thick client	Y JMCP =1 for mobile client otherwise parameter NA WEB =1 for browser otherwise parameter NA

1.1.32 User Login Reply

Message Name	**LoginServlet**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **Login in BOW** request. The reply message contains **the user login details** and the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum number of records**	**28**		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	UserConfiguration	varchar	User configuration	0||2||||||||||||N|N|N|||||10|N|N|||
Record2	UserDetails	varchar	User information	45||Sett No : 000000||YUVRAJP-T9072|1|false|false|false|true|true|OWN|false|Y||N|1^1^1^2^4^5^6^7^8^9^10,2^1^1^2^4,1^2^3,2^2^3,3^2^3,5^2^3
Record3	MarketWatch Details	varchar	Market Watch Details.	292|8001|1|Test|0.0|^0^0,
Record4	DefaultMarket Watch	bigint	Default market watch ID for the user assigned by BOW system	e.g. 8001
Reocrd5:Field1	juniors information	varchar	User type information	Member = Y End User = N
Reocrd5:Field2	Filler	varchar	Filler	e.g. 0
Record6 (Optional)	Password message	varchar	Password Expired details	>If user logs in for first time or admin has changed the password. 14|Change your Password|0 >Check for expired password. 16|Your password period has expired. You can change the password now. A new window will open up to allow you to change the password.|0
Record7	Exchange,Market and segment	varchar	Exchange,Market and segment value	6|9|10|14
Record8	ExchangeID	varchar	BSE, Exchange, market, segment	1|1^1|2^2^3^10^11|3^4^5^6^13^14|4^2^3^10^11|5^1|6^

			details	2|7^1|8^1|9^1|10^1
Record9	ValidMarketSegment	varchar	NSE, Exchange, market, segments details	2|1^1|2^2^3^10^11|3^5^6^13^14|4^2^3^10^11
Record10	ValidMarketSegment	varchar	NCDEX, Exchange, market, segments details	3|3^4^5^6^13^14
Record11	ValidMarketSegment	varchar	MCX, Exchange, market, segments details	5|3^4^5^6^13^14|4^2^3
Record12	valid Exchange Name	varchar	List of valid exchanges name separated by pipe.	BSE|NSE|NCDEX||MCX
Record13	Valid market name	varchar	List of valid Market name separated by pipe.	Equity|Derivative|Commodities|Currency|MutualFund|SLB|OFS|Debt|Repo|ITP
Record14	Valid segment name	varchar	List of valid segment name separated by pipe.	Equity|Futures|Options|Commodities-Cash|Commodities-Futures|Commodities-Options||||Futures-CNC|Options-CNC|Commodities-Cash-CNC|Commodities-Futures-CNC|Commodities-Options-CNC
Record15	Index Ids	bigint	Current Indices Ids	96016|96017|96018|96019|96020|96021|96022|96024|80998|2272|2273|2274|2275|2276|2277|2260|2261|2278|2279|2280|2281|2282|2283|2284|2285|100000|80997|2717|2718|2719|27596|27597|27598|515|9072|9073|9074|9075|9076|9077|9078|9079|9080|9081|9082|9083|9084|9085|9086|9087|9050|29|31961|100001|1|2|3|100002|6|5|7|100003|100004|100005|100006|100007|100008|100009|100010|100011|100012
Record16	Sources	bigint	Current Indices Source	5|5|5|5|5|5|5|5|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|2|1|1|1|1|1|1|1|2|2|2|2|2|2|2|2|2|2|2|2|2|2|2|2|1|2|1|1|1|2|2|1|3|3|3|1|1|1|1|1|1|1|1|1|1
Record17	Segments	bigint	Current Indices Segment	3|3|3|3|3|3|3|3|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|1|3|3|

				3|1|1|1|1|1|1|1|1|1|1
Record18	Labels	varchar	Current indices Labels	MCXSENERGY|MCXSMETAL|MCXSCOMDEX|MCXAGRI|MCXENERGY|MCXMETAL|MCXSAGRI|MCXCOMDEX|S&P BSE INFRA|S&P BSE BSE100|S&P BSE BSE200|S&P BSE BSE500|S&P BSE BSE IT|S&P BSE BSEFMC|S&P BSE BSE CG|S&P BSE BSE CD|S&P BSE BSE HC|S&P BSE BSEPSU|S&P BSE TECK|S&P BSE BANKEX|S&P BSE AUTO|S&P BSE METAL|S&P BSE OILGAS|S&P BSE MIDCAP|S&P BSE SMLCAP|S&P BSE CPSE|BANK Nifty|S&P BSE REALTY|S&P BSE POWER|S&P BSE BSEIPO|S&P BSE DOL30|S&P BSE DOL100|S&P BSE DOL200|S&P BSE SHA50|Nifty Realty|Nifty Infra|Nifty Energy|Nifty FMCG|Nifty MNC|Nifty Pharma|Nifty PSE|Nifty PSU Bank|Nifty Services|India VIX|Nifty Auto|Nifty Metal|Nifty Media|Nifty Smallcap|Nifty 200|HangSeng BeES-NAV|S&P BSE GREENX|Nifty Dividend|S&P BSE CARBON|S&P BSE SENSEX 50|S&P BSE SENSEX|Nifty 50|Nifty 500|S&P BSE SNSX50|NCDEXAGRI|FUTEXAGRI|DHAANYA|S&P BSE BHRT22|S&P BSE MID150|S&P BSE SML250|S&P BSE LMI250|S&P BSE MSL400|S&P BSE DUMMY 5|S&P BSE DUMMY 6|S&P

				BSE DUMMY 7|S&P BSE DUMMY 8|S&P BSE DUMMY 9
Record19	Names	varchar	Current indices Names	MCXSENERGY|MCXSMETAL|MCXSCOMDEX|MCXAGRI|MCXENERGY|MCXMETAL|MCXSAGRI|MCXCOMDEX|S&P BSE INFRA|S&P BSE BSE100|S&P BSE BSE200|S&P BSE BSE500|S&P BSE IT|S&P BSE BSEFMC|S&P BSE BSE CG|S&P BSE BSE CD|S&P BSE BSE HC|S&P BSE BSEPSU|S&P BSE TECK|S&P BSE BANKEX|S&P BSE AUTO|S&P BSE METAL|S&P BSE OILGAS|S&P BSE MIDCAP|S&P BSE SMLCAP|S&P BSE CPSE|BANK Nifty|S&P BSE REALTY|S&P BSE POWER|S&P BSE BSEIPO|S&P BSE DOL30|S&P BSE DOL100|S&P BSE DOL200|S&P BSE SHA50|Nifty Realty|Nifty Infra|Nifty Energy|Nifty FMCG|Nifty MNC|Nifty Pharma|Nifty PSE|Nifty PSU Bank|Nifty Services|India VIX|Nifty Auto|Nifty Metal|Nifty Media|Nifty Smallcap|Nifty 200|HangSeng BeES-NAV|S&P BSE GREENX|Nifty Dividend|S&P BSE CARBON|S&P BSE SENSEX 50|S&P BSE SENSEX|Nifty 50|Nifty 500|S&P BSE SNSX50|NCDEXAGRI|FUTEXAGRI|DHAANYA|S&P BSE BHRT22|S&P BSE MID150|S&P BSE SML250|S&P BSE LMI250|S&P BSE MSL400|S&P BSE DUMMY

				5|S&P BSE DUMMY 6|S&P BSE DUMMY 7|S&P BSE DUMMY 8|S&P BSE DUMMY 9
Record20	Locations	char	Locations	N|N|N|N|N|N|N|N||N|N|N|N|N|N|N|N|N|N|N|N|N|N|N|N|N||N|N|N|N|N|N|N|N|N|N|N|N|N|N|N|N|N|N|N|N|N|N|N|N|N|N|N|N|N|N|L|R|N|N|N|N|N|N|L|N|N|N|N|N|N|N|N|N
Record21	Values	bigint	Values	0.0|0.0|0.0|0.0|0.0|0.0|0.0|0.0|201.18|10790.02|4531.22|14306.92|14486.59|11265.6|17487.65|20191.83|14324.67|7186.78|7389.67|29326.0|24327.65|12791.06|13546.79|15434.01|15953.55|1424.06|18555.15|2061.41|1915.72|4779.85|4033.14|1588.8|1073.79|1248.62|200.55|3158.65|8510.15|20232.5|9877.25|12537.05|3426.7|3621.75|10826.2|17.72|8484.8|2431.4|2098.25|5519.85|4389.55|2552.77|2765.66|5.33|1768.2|0.0|34512.87|8423.25|6944.4|10984.63|2062.44|2048.35|2998.64|3290.05|4966.81|2409.7|4291.11|3899.64|0.0|0.0|0.0|0.0|0.0
Record22	ChangeValues	bigint	ChangeValues	-2160.8|-4684.17|-3462.87|-2939.88|-3426.21|-5225.13|-4393.14|-3892.8|0.3|-250.31|-97.33|-278.05|378.71|0.0|58.61|0.0|-1.47|0.0|165.86|0.0|0.0|0.0|-121.09|18.75|-97.04|0.0|0.0|0.0|10.11|0.0|-231.39|-75.51|-49.14|0.0|0.0|0.0|0.0|0.0|0.0|0.0|0.0|0.0|0.0|0.0|0.0|0.0|0.0|0.0|0.0|0.0|-7.05|0.0|-32.92|0.0|-1132.53|0.0|0.0|-301.03|0.0|0.0|0.0|0.0|-30.86|-4.71|-89.42|-18.14|0.0|0.0|0.0|0.0|0.0
Record23	IndicesString	Filler	IndicesString	Filler
Record24:Field1	LastLoginTime	bigint	User last Login Time	e.g. 2018-10-09 11:52:03.813 If user login first time in day then this field will be blank.

Goto Index

Record24:Field2	LastLogoutTime	bigint	User last Logout Time	e.g. 2018-10-09 11:52:03.813 If user login first time in day then this field will be blank.
Record25	Password expiry period dayleft	bigint	Password expiry period day Left.	12
Record26	MemberUserDetails	varchar	Member/User details	T|9065|N|N|
Record27:Field1	SettlementNo	varchar	BSE Settlement No	Sett. No: 31
Record27:Field2	Filler	Filler	Filler	Filler
Record28:Field1	DmaUser	char	NA	DN
Record28:Field2	Filler	Filler	Filler	Filler
Record29	Inter-Operability feature enable or not	char(1)	Member is active or not for Inter-Operability functionality Active=Y Inactive=N	Y

Detail Description of Record 1: User Configuration

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of request	Int	Successful=0 Failed=1	0
2	blank	Blank	blank	blank
3	blank	Blank	blank	2
4	ServerURL	Blank	blank	blank
5	ConnectionMode	Blank	blank	blank
6	BroadcastMode	Blank	blank	blank
7	InteractiveIP	Blank	blank	blank
8	BroadcastIP	Blank	blank	blank
9	BroadcastReceiveIP	Blank	blank	blank
10	BroadcastReceivePort	Blank	blank	blank
11	FtpServerIP	Blank	blank	blank
12	FtpUserName	Blank	blank	blank
13	FtpPassword	Blank	blank	blank
14	FtpPath	Blank	blank	blank
15	SecuritiesFileName	Blank	blank	blank
16	ContractsFileName	Blank	blank	blank
17	HttpCompressed	varchar(1)	blank	N
18	SocketCompressed	varchar(1)	blank	N
19	ShowCharts	varchar(1)	blank	N
20	ChartsBroadcastIP	Blank	blank	blank
21	ChartsBroadcastPort	Blank	blank	blank
22	ChartsServerIP	Blank	blank	blank
23	ChartsServerPort	Blank	blank	blank

24	MaximumMarketWatch	Blank	blank	blank
25	TokensPerMarketWatch	bigint	blank	10
26	BSETicker	varchar(1)	blank	N
27	NSETicker	varchar(1)	blank	N
28	BroadcastKeepAliveTime	Blank	blank	blank
29	InteractivetKeepAliveTime	Blank	blank	blank
30	HttpDownloadURL	Blank	blank	blank
31	JSPBroadcastServerIP	Blank	blank	blank

Detail Description of Record 2: User Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	UserID	bigint	User internal ID	16377
2	SessionKey	bigint	Unique key for identify user session. This session Key needs to be used for further communication with BOW Server for every request.	Blank
3	Sett No.	bigint	BSE Settlement No.	Sett No : 000000
4	Filler	Filler	Filler	Filler
5	UserID	bigint	This field should contain the user ID/client ID	Client1-T9065
6	UserType	bigint	User Type	1
7	AllowDownloadFromServer	bigint	Flag Allow Data From Server	False
8	sendAllData	bigint	Flag enable LDB all	False
9	sendSelfData	bigint	Flag enable LDB self	False
10	isSpeculativeClient	bigint	Flag speculative client	False
11	allowPro	bigint	Flag allow pro	False
12	ProClientId	bigint	PRO/OWN	OWN
13	allowParticipant	bigint	Paticipant	False
14	DownloadFlag	bigint	check Security Download	Y
15	TransactionPassword	bigint	Blank	Blank
16	MarkToMarket	bigint	MarkToMarket Admin ID	N
17	Exchange,category and Markets	varchar	Combination of Exchange,Category(security=1 or commodity=2) & markets Separated by comma (,). <Exchange>^<Category>^<Market1> …< market n> It shows market against category.	1^1^1^2^4^5^6^7^8^9^10,2^1^1^2^4,1^2^3,2^2^3,3^2^3,5^2^3 For ex 5^2^3 MCX^Commodity^Commodity

Detail Description of Record 3: MarketWatch Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	MarketWatchSize	bigint	Number of records in default market watch applied for Login User.	e.g. 292
2	MarketWatchID	bigint	MarketWatch unique ID	e.g. 8001
3	MarketType	Varchar	Unique market type ID	User defined marketWatch=1 Indices MarketWatch=2 PreDefined industrial MarketWatch=3
4	MarketWatch Name	varchar	Market watch name	e.g. Test
5	Field4	Blank	Blank	e.g. 0.0
6	Exchange Segment	varchar	Exchange and Market ID	Not applicable

Detail description of Record 6(Optional): Password Expiry details

This message is optional & it will receive during password expiry warning period. Hence if it is not in warning period then this record will not send by BOW server.

Field No	Field Name	Type	Description	Values, meanings, Validations
1	PasswordChange	varchar	Message Type ID	14
2	Password message	varchar	Message for changing the password	Change Your Password= 14
3	Blank	Blank	Blank	e.g. 0

Detail Description of Record 7: Exchange, Market and Segments Values

Field No	Field Name	Type	Description	Values, meanings, Validations
1	NoOfExchange	varchar	Number of exchange supported by BOW system	e.g. 4
2	MaxExchangeValue	varchar	Max exchange value	e.g. 5
3	MaxMarketValue	varchar	Max market value	e.g. 10
4	MaxSegmentValue	varchar	Max segment value	e.g. 14

Detail Description of Record 8: BSE Exchange, Market and Segments Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Exchange ID	bigint	Exchange unique ID with name	**BSE =1**
2	ValidMarketSegment	varchar	Contain valid segments for BSE Equity Market.	1^1

			<Market>^<Segment1>	For details Refer to Appendix section 1.1
3	ValidMarketSegment	varchar	Contain valid segments for BSE Derivatives Market. <Market>^<Segment1>^<Segment...n>	2^2^3^10^11 For details Refer to Appendix section 1.1
4	ValidMarketSegment	varchar	Contain valid market for BSE Commodities segment ID. <Market>^<Segment1>^<Segment...n>	3^4^5^6^13^14 For details Refer to Appendix section 1.1
5	ValidMarketSegment	varchar	Contain valid market for BSE Currency segment. <Market>^<Segment1>^<Segment...n>	4^2^3^10^11 For details Refer to Appendix section 1.1
6	ValidMarketSegment	varchar	Contain valid market for BSE Mutual Fund. <Market>^<Segment1>^<Segment...n>	5^1 For details Refer to Appendix section 1.1
7	ValidMarketSegment	varchar	Contain valid market for BSE SLB segment. <Market>^<Segment1>^<Segment...n>	6^2 For details Refer to Appendix section 1.1
8	ValidMarketSegment	varchar	Contain valid market for OFS segment ID. <Market>^<Segment>	7^1 For details Refer to Appendix section 1.1
9	ValidMarketSegment	varchar	Contain valid market with BSE DEBT segment. <Market>^<Segment>	8^1 For details Refer to Appendix section 1.1
10	ValidMarketSegment	varchar	Contain valid market with BSE REPO segment. <Market>^<Segment>	9^1 For details Refer to Appendix section 1.1
11	ValidMarketSegment	varchar	Contain valid market with BSE ITP segment. <Market>^<Segment>	10^1 For details Refer to Appendix section 1.1

Goto Index

Detail Description of Record 9: NSE Exchange, Market and Segments Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	ValidMarketSegment	varchar	Exchange unique ID with name	**NSE = 2**
2	ValidMarketSegment	varchar	Contain valid market for NSE Equity with segment. <Market>^<Segment>	1^1 For details Refer to Appendix section 1.1
3	ValidMarketSegment	varchar	Contain valid market for NSE Derivative with segment. <Market>^<Segment>	2^2^3^10^11 For details Refer to Appendix section 1.1
4	ValidMarketSegment	varchar	Contain valid market for NSE commodity with segment. <Market>^<Segment>	3^5^6^13^14 For details Refer to Appendix section 1.1
5	ValidMarketSegment	varchar	Contain valid market for NSE currency with segment. <Market>^<Segment>	4^2^3^10^11 For details Refer to Appendix section 1.1

Detail Description of Record 10: NCDEX Exchange, Market and Segments Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	ValidMarketSegment	varchar	Exchange name with ID	**NCDEX = 3**
2	ValidMarketSegment	varchar	Contain valid market for NCDEX Commodity with segment. <Market>^<Segment1>^<Segment...n>	3^4^5^6^13^14 For details Refer to Appendix section 1.1

Detail Description of Record 11: MCX, Exchange, Market and Segments Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	ValidMarketSegment	varchar	Exchange name with ID	**MCX = 5**

Goto Index

2	ValidMarketSegment	varchar	Contain valid market for MCX Commodity with segment. <Market>^<Segment1>^<Segment...n>	3^4^5^6^13^14 For details Refer to Appendix section 1.1
3	ValidMarketSegment	varchar	Contain valid market for MCX Currency with segment. <Market>^<Segment1>^<Segment...n>	4^2^3 For details Refer to Appendix section 1.1

Detail Description of Record 28: Member/User Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	MemberType	char	Member Type, NA	
2	BSE MemberCode	bigint	BSE Member Code	9065
3	ClMem_Allow_Sqoff	char	MTM square off is allowed for this User or not	Y/N
4	DynamicMenu	char	NA	N
5	Multibroker ImageName	Filler	NA	Blank

1.1.33 Two Factor Authentication OTP Request

Message Name	AuthenticationMode
Type of Message	HTTP Request
Description	This request message should be sent by the TPS to the BOW Server to fetch two factor OTP on Mobile/Email. This request needs to be sent after LoginServelet request. User will not able to proceed further without sending this request.

Field Name	Type	Description	Values, meanings, Validations
verificationMode	int	Verification Mode OTP based authentication=1	1
USLOGINID	varchar(30)	This field should contain the user ID of the user/broker.	Client1-T9072
SessionKey	varchar(62)	Blank	Blank
Thick Client	char(1)	Thick client	Y

1.1.34 Two Factor Authentication OTP Reply

Message Name	AuthenticationMode
Type of Message	HTTP Response
Description	This is the reply message sent in response to retrieve **Two factor authentications Mobile/Email based OTP (one-time password) for login in BOW.** The reply message contains the OTP and the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum number of records	1		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of Request	int	Successful=0 Failed=1	0
Record1:Field2	Error Details	varchar	Successful= OTP message Internal Rejection details if failed i.e. Field 1 = 1 then error message	OTP has been sent to registered mobile 98xxxxxx11 and registerd Email Id.

1.1.35 Two Factor Authentication Verification Request

Message Name	AuthenticationLogin
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW terminal to verify whether **OTP valid or not.**

Field Name	Type	Description	Values, meanings, Validations
OTP	bigint	Mobile/Email based One time password	413007
USLOGINID	varchar(30)	This field should contain the user ID of the user/broker.	Client1-T9072
SessionKey	varchar(62)	Unique key for identify user session	Blank
Thick Client	char(1)	Thick client	Y

1.1.36 Two Factor Authentication verification Reply

Message Name	AuthenticationLogin
Type of Message	HTTP Response
Description	This is the reply message sent in response to **OTP valid or not**. The reply message contains the **session Key** & status of the transaction after it was processed (i.e. **success or failure**). This session key needs to be used for all further communication with BOW OMS.

Response	Minimum number of records	1		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of Request	int	Successful=0 Failed=1	1
Record1:Field2	Error Details	varchar(62)	Successful=SessionKey Internal Rejection details if failed i.e. Field 1 = 1 then error message	1105495721-01086138139

1.1.37 User Logout Request

Message Name	**Logout**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **Logout from BOW application.**

Field Name	Type	Description	Values, meanings, Validations
SessionKey	varchar(62)	Unique key for identify user session.	2124574344-04073078075024079079
Thick Client	char(1)	Thick client	Y

1.1.38 User Logout Reply

Message Name	**Logout**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **Logout from BOW application**. The reply message contains the transaction after it was processed (i.e. **success or failure**).

Sr.No.	Field Name	Type	Description	Values, meanings, Validations
Record1:Field1	Status of Request	int	Successful=0 Failed=1	0
Record1:Field2	Error Details message	varchar	If Filed=0 then Success message or If Field=1 then Error message	
Record1:Field3	Status	varchar	Stats Message	Logout

1.1.39 User Login Status Request

Message Name	GetClientInfo
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOLTPLUS when the user wants to **know`Login/Logoff information of client.**

Field Name	Type	Description	Values, meanings, Validations
USLOGINID	varchar(30)	User/Broker login ID.	Client1-t9072
SessionKey	varchar(62)	Unique key for identify user session.	2124574344-04073078075024079079
Thick Client	char(1)	Thick client	Y

1.1.40 User Login Status Reply

Message Name	GetClientInfo
Type of Message	HTTP Response
Description	This is the reply message sent in response to retrieve **know`Login/Logoff information of client**. The reply message contains the transaction after it was processed (i.e. **success or failure**).

Sr.No.	Field Name	Type	Description	Values, meanings, Validations
Record1:Field1	Status of Request	int	Successful=0 Failed=1	0
Record1:Field2	Error Details message	varchar	If Filed=0 then Success message or If Field=1 then Error message	Yes, User logged in

Password Management

1.1.41 Change Password Request

Message Name	**ChangePassword**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **change the login password.**

Field Name	Type	Description	Values, meanings, Validations
OldPassword	varchar(67)	Old password of User/Client	y.123456
PHPassword	varchar(67)	New password	z.123456
ConfirmPassword	varchar(67)	Confirm password	z.123456
userflag	bigint	userflag	1
SessionKey	varchar(62)	Unique key for identify user session	801376505-02251199
Thick Client	char(1)	Thick client	Y

1.1.42 Change Password Reply

Message Name	**ChangePassword**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **change the login password request**. The reply message contains the first name, middle name and last name and the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum number of records**	**1**		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	int	Successful=0 Failed=1	0
Record1:Field2	Error Details	varchar	If field= 1 then error message otherwise blank	0
Record1:Field3	Filler	Filler	Filler	0
Record1:Field4	SessionKey	bigint	Unique key for identify user Session	801376505-02251199
Record1:Field5	FirstName,MiddleName,LastName	varchar	FirstName,MiddleName,LastName	null, null, null

1.1.43 Forgot Password Request

Message Name	**ForgotPassword**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW terminal when the user forgot password and wants to **retrieve new password.**

Field Name	Type	Description	Values, meanings, Validations
USLOGINID	varchar(30)	This field should contain the user ID of the user/broker.	T9065
SessionKey	varchar(62)	Unique key for identify user session	Blank
Thick Client	char(1)	Thick client	Y

1.1.44 Forgot Password Reply

Message Name	**ForgotPassword**
Type of Message	HTTP Response
Description	This is the reply message sent in response to retrieve **new password request**. The reply message contains the Email-ID and the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum number of records**	**1**		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record 1: Field1	Status of Request	int	Successful=0 Failed=1	0
Record 1: Field2	Error Details	varchar	Successful= Your password has been send to register email-id Internal Rejection details if failed i.e. Field 1 = 1 Then Error message	Your password has been sent to your registered e-mail Id
Record 2:Field1	Email ID	varchar	Register Email ID	ABC.XYZ@MKTTECH.IN

Order and Trade

1.1.45 Add, Limit, Market & Stop-loss Order Request - HTTP

Message Name	AddOrder
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **Add a Limit, Market order** or **Stop loss order.**

Field Name	Type	Description	Values, meanings, Validations
OEToken	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master	e.g. 244
OENSEToken	bigint	Exchange Instrument ID	e.g. 3346 BSE EQUITY= -1 BSE Repo = NA All other markets = Exchange Instrument ID
OEBSEToken	bigint	Exchange Instrument ID	e.g. 500410 BSE EQUITY and REPO =Exchange Instrument ID All other markets= NA NSE Equity= -1
OEDestination	bigint	Exchange Name	1 For details Refer to Appendix section 1.1
OEInstrumentType	varchar(10)	This field contains the type of the instrument.	e.g. FUTCOM EQUITY= NA REPO= Repo Type All other Markets = Instrument Type For more details kindly refer respective table in Scrip/Contract Master Schema Format
OEMarket	bigint	Market type with unique ID	4 For details Refer to

			Appendix section 1.1
OESymbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. ACC,ALS,GOLD,EURINR etc.
OEExpiryDate	bigint	This date is the actual last trading date of the Product in seconds.	e.g. 1543363200 Equity = NA All other Market= Contract expiry date
OEStrikePrice	bigint	Strike price of option contract.	BSE & NSE Equity = NA all other market Future Contract = -1 Repo= Repo Tenor Currency Option Contract =Strike Price * 10000 All other option Contract = Strike price *100
OEOptionType	char(2)	This field contains the option type. CALL= CE PUT = PE	CE BSE & NSE Equity= NA BSE all markets Future contract=Blank BSE SLB = XX NSE & all markets future contract= XX Repo = Settlement Type Option Contract = CE/PE
OESeries	char(2)	Unique Series Id for security.	Equity= EQ/BE Repo= Security Type All other markets= NA
OEVolume	bigint	This field should contain the order quantity.	e.g. 10
OEPrice	bigint	This field should contain the price at which the order is placed. The price must be a multiple of the tick size. To enter a Market order The price should be set to zero.	e.g. 1417.50
OETriggerPrice	bigint	This field is applicable only for a	

		Stop Loss order and should be a multiple of the tick size. This field should contain the price at which the order is to be triggered and brought to the market. For a Stop Loss buy order, the trigger price will be less than or equal to the limit price but greater than the last traded price. For a Stop Loss sell order, the trigger price will be greater than or equal to the limit price but less than the last traded price.	
OEDisclosedVolume	bigint	This field should contain the quantity that has to be disclosed to the market. It is not applicable if the order has either the All Or None or the Immediate Or Cancel attribute set. It should not be greater than the volume of the order and not less than the Minimum quantity as specified by Exchange	5
USBackOfficeId	varchar(30)	This field should contain the user ID/client ID for whom order to be place.	Client1-T9065 (UCC code should not be more than 10 characters)
OEFIELD3	varchar(5)	Internal Product Type for Cash and Carry (carry forward) or Intraday.	CNC = Y Intraday = N
OEBuySellIndicator	bigint	This field should specify whether the order is a buy or sell.	Buy order = 1 Sell order = 2
OEAlphaChar	varchar(2)	NA	
OEActualApproverId	bigint	NA.	NA
OEVolumeRemaining	bigint	This field specifies the total quantity remaining from the original quantity after trade.	Blank
OEDisclosedVolumeRemaining	bigint	NA	
OEAdminUSID	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	e.g. 9 Applicable only for BSE & NSE Equity segments
OEStatus	bigint	Order Status Normal=2/After market=4/Batch order=5	BSE & NSE Equity=Blank All other markets=NA
OEProClientIndicator	bigint	Whether the order is entered on behalf of the broker (Pro Order) or a client.	Client order = 1 Pro(broker) order = 2

OESettlor	varchar(10)	This field should specify the ID of the participants who are responsible for settling the trades through the custodians. By default, all orders are treated as broker's own orders and this field defaults to the Broker Code	Broker Code/Blank/participantID
OEOrderNumber	bigint	This field contains an Order Number assigned to the order. It is a unique identification for an order.	Blank
OEField1	bigint	This field should contain the type of order other than Equity Segments. Limit,Market,IOC= 1 StopLoss= 3 OCO= 8	e.g. 1 BSE & NSE Equity= NA
OEParticipantType	varchar(10)	Participant type	BSE & NSE Equity=Blank All other markets=NA
OEIntuitionalClient	bigint	Institutional Client	NSE Equity =Blank All other markets= CLIENT/PRO
OEGoodTillDate	bigint	This field contains the number of days for a GTD order. GTD Order is a conditional request made to the broker (or the system) to keep the order in system till a predetermined date, unless it is executed or cancelled. Generally the order is valid for a day. If this field is non-zero, the GTC flag must be off. For MCX expiry date format = (in seconds from January 1, 1970) For NCDEX expiry date format = (in seconds from January 1, 1980)	e.g. 1221696000 Applicable only for MCX and NCDEX Commodities For NCDEX, If Day,GTC,IOC then 0 otherwise GTD date For MCX, If GFD=Blank,GTC=-1,IOC= 0, EOSESS=1 otheriwse GTD date BSE Equity(EOSESS) = 1 BSE Equity(EOTODY) = 2 BSE Repo = NA

			If GFD then BSE Currency & Commodity = Blank otherwise 0 All other BSE markets =Blank NSE Equity & Commodity=0 & NSE all other markets Blank
GTC	bigint	A Good till Canceled (GTC) order can be placed by an investor to buy or sell a security at a specified price that remains active until it is either cancelled by the investor or the trade is executed.	Applicable only for MCX and NCDEX Commodities MCX and NCDEX: If GTC Order then 1 otherwise 0 If GFD then BSE Currency & Commodity = 0 otherwise IOC BSE REPO = Blank NSE Commodity=0 BSE Equity & NSE all markets = NA All other Markets=0
IOC	bigint	Immediate or cancel=1 otherwise=0	0
OEBookType	bigint	This field should contain the type of order. Limit,Market=1 Stoploss=3 BSE -OCO=8	Applicable for BSE/NSE Equity only For all other markets = NA
OESegment	bigint	Unique numeric Identifier for Product.	For details Refer to Appendix section 1.1 Applicable only for Equity All other markets= NA
OEGroup	varchar(6)	Equity trading group	BSE Equity: A All other

			markets=NA
BlockDeal	varchar(1)	Flag to identify order is Block deal.	Applicable for BSE & NSE Equity only Block deal orders=Y All other orders=N All other Markets=NA
OEReason	varchar(250)	Reason	^
OEApproverRemarks	varchar(50)	blank	blank
OESolicitorPeriod	bigint	blank	blank
SessionKey	varchar(62)	Unique key for identify user session	2007100101-0420420920615521 0210
Thick Client	char(1)	Thick client	Y

Note:

- NA: Not applicable (If any request parameter marked as 'NA' then there is no need to pass that parameter in any request for that particular Exchanges & Markets.
- Using above 'AddOrder' request, TPS can place order for all Exchanges & Markets, which is supported by BOW terminal.

1.1.46 Add, Limit/Market Order Reply - HTTP

Message Name	**AddOrder**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **Limit/Market order Add** request. The reply message contains the Order id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum Number of Records**	**1**	**HTTP Response**	
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of Request	int	Successful=0 Failed=1	0
Record1:Field2	Error Details message	varchar	Blank=Successful Internal Rejection details if failed (Field1 = 1)	Order quantity exceeds the set limit quantity Details- BSE: Client: Client1-T9065 Buy FUTCUR - EURINR - 27 Jul 2018 - Qty: 100000 Price: 10000.0
Record1:Field3	blank	blank	blank	0

1.1.47 Connect message for Order Gateway

Message Name	**CONNECT Request**
Type of Message	**TCP Request**
Description	This request message is sent by the TPS to the BOW Server when the user wants to **connect to order gateway. Through this only connection channel will create. There will be no response of this message.User needs to sent this message only if User wants Order and trade confirmation messages on this Order Gateway TCP Chennel.**

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Connect MarketWatch	varchar(10)	Open Market watch	CONNECT
2	Internal USID	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	16377
3	SessionKey	varchar(62)	Unique key for identify user session.	2124574344-04073078075024079079
4	Connection Type	varchar(5)	Type of connection	TCP
5	filler	filler	filler	filler
6	filler	filler	filler	filler
7	filler	filler	filler	filler
8	Thick Client	char(1)	Thick client	Y
9	InteractiveMessageFlag	char(1)	Set value Blank (‘ ’)/’N’ to get interactive messages through broadcast channel otherwise ‘Y’ to get interactive messages through Order Gateway. Needs to send this message only when user need Order/Trade confirmation messages on Order Gateway TCP Channel.	Y

1.1.48 Add, Limit, Market & Stop-loss Order Request - TCP

Message Name	**AddOrder**
Type of Message	TCP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **Add a Limit, Market order** or **Stop loss order.**

Field Name	Type	Description	Values, meanings, Validations
MessageHeader	varchar	Message Header This is Fix Length Structure and details	Orders 2000 1100

		of the position are explained below in Message Header part.	HDFC BANK HDFCBANK EQ 11 11-1 500180 0 P
ID	bigint	Blank	
TimeStamp	bigint	This field set to zero while sending messages to the host end. For messages coming from the host, this contains the time the message was generated by the trading system.	0
LogTime	bigint	This field should be set to numeric zero while sending to the host. This is used in host end.	0
AlphaChar	char(2)	blank	
TransactionCode	bigint	Transaction Code Order Entry Request = 2000	2000
ErrorCode	bigint	This Field set to zero while sending messages to the host. For messages coming from the host, this describes the type of error.	0
TimeStamp1	bigint	The time the message arrives at the trading system host. This Field set to numeric zero while sending to host.	0
TimeStamp2	bigint	This field set to numeric zero while sending to the host.	0
UsId	bigint	The Internal ID for whom order to be place.	16377
ParticipantType	varchar(20)	Partcipant Type	BSE Derivative & Currency= S BSE All & other markets =Blank
SubmitStatus	bigint	Request from TPS to exchange=1 Response from exchange to TPS system=2	1
OrderNumber	bigint	This field must be sent as blank or zero for the order entry request.	0
BookType	bigint	Order Type Limit/Market =1 Stop Loss=3 OCO = 8	1
setBuySellIndicator	bigint	Whether the order is a buy or sells. Buy order=1 Sell order=2	1
Volume	bigint	This field contain the order quantity.	e.g. 10
VolumeRemaining	bigint	The total quantity remaining from the original quantity after trade(s). For order	Blank

		entry, this field should be set to Blank.	
DisclosedVolume	bigint	The quantity that has to be disclosed to the market. It is not applicable if the order has Immediate Or Cancel attribute set. It should not be greater than the volume of the order and not less than the Minimum quantity as specified by Exchange.	e.g. 2
DisclosedVolumeRemaining	bigint	This is the disclosed volume remaining from the original disclosed volume after trade(s).	0
MinimumVolume	bigint	Minimum volume	0
VolumeFilledToday	bigint	The total quantity traded in a day. It should be set to = 0(zero) while sending order entry request to the host.	0
setPrice	bigint	Market Order=0 Limit order= Price at which order is placed.	0
TriggerPrice	bigint	This field is applicable only for a Stop Loss order and should be a multiple of the tick size. This field should contain the price at which the order is to be triggered and brought to the market. For a Stop Loss buy order, the trigger price will be less than or equal to the limit price but greater than the last traded price. For a Stop Loss sell order, the trigger price will be greater than or equal to the limit price but less than the last traded price.	0
Flags	bigint	NA	0
Broker	bigint	Broker	0
TraderId	bigint	Trader ID	0
BranchId	bigint	NA	0
Remarks	bigint	Remarks	0
EntryDateTime	bigint	This field contains the date and time when the order entered the trading system. This is available in Order Confirmation/ Order Modification Confirmation response This field, while coming from the host, contains the date and time when the order entered the trading system. **This field should be set to zero while placing new order.**	0
LastModifiedDateTime	bigint	This contains time of last activity done on that order. Last activity could be order entry, order modification or last trade time of that order.	0

		While sending Order this should be set to 0.	
UsLoginId	varchar(30)	The user ID/client ID for whom order to be place.	Client1-T9065 (UCC code should not be more than 10 characters)
CompetitorPeriod	bigint	The default competitor period for auction. This field will be set to zero.	0
SolicitorPeriod	bigint	Blank	
ModifiedCancelledBy	char(1)	This field denote who has modified or cancelled a particular order. During order entry, this field should be blank and applicable only for NSE segments. Trader=T	T
ReasonCode	bigint	During order entry, this field should be set to zero.	0
AuctionNumber	bigint	Auction number	0
CounterPartyBroker	varchar(20)	The Counter Party Broker code for the Negotiated Trade Order. This field is valid only for Negotiated Trade Orders. For other books, this field should be set to blank.	Blank
SuspendedSecurity	char(1)	Security is suspended.	Blank
GoodTillDate (Retention Type)	bigint	This field contains the number of days for a GTD order. GTD Order is a conditional request made to the broker (or the system) to keep the order in system till a predetermined date, unless it is executed or cancelled. Generally the order is valid for a day. If this field is non-zero, the GTC flag must be off. For MCX expiry date format = (in seconds from January 1, 1970) For NCDEX expiry date format = (in seconds from January 1, 1980)	BSE Equity EOTODY= 2 BSE Equity EOSESS= 1 All other markets= Blank
Settlor	varchar(14)	The ID of the participants who are responsible for settling the trades through the custodians. By default, all orders are treated as broker's own orders and this field defaults to the Broker Code	0 or Participant Id
ProClientIndicator	bigint	Whether the order is entered on behalf	1

		of the broker (Pro Order) or a client. Client order= 1 Pro(broker) order= 2	
SettlementPeriod	bigint	This field need to set to 0	0
CaLevel	bigint	This field should contain the Corporate Action Level Applicable for BSE. OWN= 20 CLIENT= 30 SPLCLI= 40 INST= 90	e.g. 30
OpenClose	char(1)	NA	Blank
CoverUnCover	char(1)	NA	Blank
GiveUpFlag	char(1)	NA	Blank
Purpose	bigint	NA	0
AdminUsId	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	16377
Reason	varchar(1000)	Blank	^
Status	bigint	NA	0
ExpectedApproverId	bigint	NA	0
ActualApproverId	bigint	NA	
ApproverRemarks	varchar(300)	blank	blank
OldVolume	bigint	NA	0
OldPrice	bigint	NA	0
CreatedBy	bigint	Users Internal ID who has placed the order.	16377
CreatedAt	datetime(8)	Created time	7/25/2019 3:39:35 PM
UpdatedBy	bigint	Updated By	Blank
UpdatedAt	datetime(8)	Updated At	Blank
Field1	bigint	Order Type Order Type Limit/Market =1 Stop Loss=3 OCO = 8	1
Field2	bigint	Filler	Filler
Field3	varchar(5)	Internal Product Type for Cash and Carry (carry forward) or Intraday/delivery CNC=Y Intraday=N	N
Field4	bigint	Blank	
RowState	bigint	Rowstate	Blank
IOC	bigint	An immediate or cancel order (IOC) IOC=1 Otherwise = 0	0
AuctionId	bigint	blank	
BlockDeal	char(1)	Flag to identify order is Block deal. Block deal orders=Y All other orders=N	N
Retention Type	bigint	Retention type	E.g. GFD

			BSE & NSE Equity= 0 NSE All markets= DAY or IOC BSE Currency=GFD or IOC BSE All other markets=GFD MCX=GTD,GTC, EOSESS,IOC & GTDate NCDEX=DAY,GTC,IOC & GTDate
Price	bigint	Order Price	29000.50
SessionKey	varchar(62)	Session Key to be sent in Order request which is received in Login Response.	1552101419-03108113059110114114

Detail Description of Message Header
HeaderLength=201, HeaderColumns=21
This message is fixed length Structure, blank should be sent in request if no values.

HeaderLength(Position) = HeaderColumns	Field(Header) Name	Type	Description	Values, meanings, Validations
0=10	Message ID	bigint	ID, NA	Blank
1=30	Table Name	Varchar(30)	Table name	Orders
2=10	Transaction Code	bigint	Transaction Code. Order Entry Request	2000
3=1	Direction	bigint	Request from TPS to exchange=1 Response from exchange to TPS system=2	1
4=10	Internal Token	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master	5
5=30	ISIN Number	bigint	ISIN number of Security	
6=10	Instrument	varchar(50)	Instrument Name	e.g. HOUSING

	Name			DEHDFC BSE Equity= Company name All other Market = Instrument name For more details kindly refer respective table in Scrip/Contract Master Schema Format
7=20	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	HDFC
8=2	Series	char(2)	Unique Series Id	Equity= EQ/BE Repo= Security Type All other markets= Blank
9=10	Expiry Date	bigint	This date is the actual last trading date of the Product.	Equity contract= Blank All other Market= Contract expiry date
10=20	Strike Price	bigint	Strike price of option contract.	BSE & NSE Equity = Blank All other markets Future Contracts= -1 Repo= Repo Tenor All other option Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
11=10	Option Type	char(2)	This field contains the option type. CALL= CE PUT = PE	BSE & NSE Equity=Blank BSE other markets=Blank NSE & All other

				markets = XX This field contains the option type. Option Contract = CE/PE
12=1	Message Type	bigint	blank	
13=1	Market	bigint	Market ID	e.g. 1 For details Refer to Appendix section 1.1
14=3	Segment	bigint	Unique numeric Identifier for Segment.	e.g. 1 For details Refer to Appendix section 1.1
15=1	Source	bigint	Exchange ID	e.g. 1 For details Refer to Appendix section 1.1
16=1	Destination	bigint	Destination Exchange	e.g. 1 For details Refer to Appendix se
17=10	NSE Token	bigint	NSE Exchange Instrument ID/Token	BSE Equity = -1 All other Markets = Exchange Instrument ID
18=10	BSE Token	bigint	BSE Exchange Instrument ID/Token	BSE Equity = Exchange Instrument ID All other Markets= 0
19=10	Origin Time	bigint	Origin Time	0
20=1	Purpose	bigint	Purpose	P

1.1.49 Add, Limit, Market & Stop-loss Order Reply - TCP

Message Name	**AddOrder**
Type of Message	TCP Response
Description	This is the reply message sent in response to **Limit/Market order Add**. The reply message contains the Order id and the status of the transaction after it was processed (i.e. **success or failure**). This response will receive on Broadcast or Order Gateway TCP channel based on Connect message.

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Message Type	bigint	Message ID	75
2	Transaction Code	bigint	The transaction message number. This describes	Order Entry Rejection=2231

			the type of message received.	Order Entry Confirmation = 2073 Order Cancellation Cofirmation= 2075 Order Price Confirmation= 2012 Order Mirage(Order trade updation from order window) = 1999
3	ID	bigint	Unique internal ID	100000925
4	Exchange	bigint	Exchange ID.	For details Refer to Appendix section 1.1
5	Market	bigint	Market ID.	For details Refer to Appendix section 1.1
6	Token	bigint	The token number of the Contract.This is internal token number received in Scrip/Contract Master.	e.g. 7
7	LogTime	bigint	This field set to zero while sending messages to the host. For messages coming from the host, this contains the time (In seconds) when the message was generated by the trading system host.	e.g. 1533208512
8	ErrorCode	bigint	Error code for order response. Successful – 0 otherwise error code	e.g. 0
9	OrderNumber	bigint	Exchange order number	Eg. 1539925361859000000 Order rejection=0 Otherwise Exchange order number.
10	BookType	bigint	Type of order. Limit=1 Stoploss=3 OCO=8	1
11	Volume	bigint	Order quantity.	e.g. 1
12	VolumeRemaining	bigint	The total quantity remaining from the original quantity after trade(s). For order entry,	e.g. 1

			this field should be set to Volume. For every response, the trading system will return this value.	
13	DisclosedVolume	bigint	Disclosed Volume sent in Order Request.	0
14	DisclosedVolumeRemaining	bigint	This is the disclosed volume remaining from the original disclosed volume after trade(s).	0
15	VolumeFilledToday	bigint	The total quantity traded in a day. It should be set to = 0(zero) while sending order entry request to the host.	0
16	Price	bigint	Price sent in Order request.	1450.00
17	TriggerPrice	bigint	Trigger price sent in order request.	
18	Flags	bigint	N.A.	e.g. 0
19	Broker	bigint	Trading member ID.	e.g. 9065
20	TraderId	bigint	Trader ID	e.g. 906510003
21	BranchId	bigint	Branch Id	0
22	Remarks	bigint	The Internal Order number/ remarks. This will be generated by OMS system.	e.g. 100000923
23	EntryDateTime	bigint	The date and time (seconds) when the order entered the trading system. This is available in Order Confirmation/ Order Modification Confirmation response	Equity= -19800 All other markets= 1536232534
24	LastModifiedDateTime	bigint	This contains time in milliseconds of last activity done on that order. Last activity could be order entry, order modification or last trade time of that order.	e.g. 1533208512
25	ParticipantType	varchar(20)	ParticipantType	Blank
26	ModifiedCancelledBy	bigint	NA	NA
27	ReasonCode	bigint	NA	e.g. 0
28	GoodTillDate	bigint	Date sent in Order request. This is applicable only for MCX & NCDEX.	BSE Equity & Commodity= Blank

29	ProClientIndicator	bigint	Whether the order is entered on behalf of the broker or a trader. Client order=1 Pro(broker) order=2	1
30	AdminUsId	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	9
31	USBackOfficeID	varchar(30)	The user ID/client ID who has logged in.	Dealer1-T9065
32	Reason	varchar(200)	Order status message.	Order Added Successfully
33	Status	bigint	NA	e.g. 0
34	ExpectedApproverId	bigint	NA	
35	ExpectedApprover BackOfficeID	bigint	NA	BSE Derivative,SLB,NSE Equity = SYSTEM All other markets = Blank
36	ActualApproverId	bigint	NA	
37	ActualApprover BackOfficeID	Filler	NA	Blank
38	ApproverRemarks	varchar(50)	Blank	Blank
39	OldVolume	bigint	NA	e.g. 0
40	OldPrice	bigint	NA	e.g. 0
41	ErrorMessage	bigint	Blank	Blank
42	CreatedBy	bigint	Contract created Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	9
43	BackOfficeID	varchar(30)	The user ID/client ID who has logged in.	Dealer1-T9065
44	CreatedAt	datetime(8)	Order Entry time.	02-08-2018 11:15:12:740
45	LastUpdatedBy	bigint	User ID who has last modified th order.	Blank
46	Filler	Filler	Filler	Blank
47	LastUpdatedAt	datetime(8)	Contract last updated time.	Blank
48	Field1(CA Value)	bigint	CA Value for BSE	
49	Field2	bigint	Filler	Filler
50	Field3	varchar(5)	Product Type Cash and Carry (carry forward) or Intraday.	CNC=Y Intraday=N
51	Field4	varchar(50)	The Location Id of the end-user who is placing the orders should be	Its Different from Exchange to exchange

			registered with the Exchange. The location id consists of 16 digits and break-up of this Location Id is given below: 6 digits: Pin Code 4 digits: Branch Id 3 digits: User id 1 digit: Program Trading Possible Values 0 – No Program Trading 1 – Program Trading Allowed 2 – DMA Allowed but No Program Trading 3 – DMA Allowed with Program Trading 4 – SOR 5 – Handheld Device 6 – SOR with DMA 7 – SOR with DMA with Program Trading 2 digits: Vendor Code as as assigned by the exchange.	
52	RowState	bigint	RowState	Blank
53	UsId	bigint	This field contain the Internal ID for whom order to be place.	e.g. 9
54	BackOfficeID	varchar(30)	This field contain the user internal user login ID/client login ID for whom order to be place.	Client1-T9065
55	InstrumentType	varchar(10)	This field contains the type of the instrument.	EQUITY= Blank REPO= Repo Type All other Markets = Instrument Type
56	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. GOLD
57	Series	char(2)	Series ID for security.	Equity= EQ/BE Repo= Security Type All other markets= NA
58	ExpiryDate	bigint	This date is the actual last trading date of the	e.g. 20-Jun-19

			Product. DD-MMM-YY FORMAT	Equity contract= Blank All other Market= Contract Expiry Date
59	StrikePrice	bigint	Strike price of option contract.	Equity & Futures = blank Repo= Repo Tenor All other option Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
60	OptionType	char(2)	This field contains the option type. CALL= CE PUT= PE	BSE All markets,NSE Equity = Blank NSE & all other markets = XX Repo= Settlement Type otherwise XX Option Contract = CE/PE
61	BuySellIndicator	bigint	Whether the order is a buy or sells.	Buy order=1 Sell order=2
62	Remarks	bigint	This field contains the remarks.	e.g. 100000923
63	AuctionNumber	bigint	The auction number. The maximum value this can take is 9999. Other than auction it is set to zero.	e.g. 0
64	Settlor	varchar(14)	This field will received the ID of the participants who are responsible for settling the trades through the custodians. By default, all orders are treated as broker's own orders and this field defaults to the Broker Code	e.g. 9065
65	Value	bigint	Total Value	e.g. 0
66	GFD/GTC/DAY/EOSS /GTC Retention Type	varchar(20)	Retention Type GTD only applicable for MCX and NCDEX market	BSE Commodity,Repo and Currency= GFD BSE ITP = EOSS

			For MCX expiry date format = (in seconds from January 1, 1970) For NCDEX expiry date format = (in seconds from January 1, 1980)	NSE all market= blank NCDEX=GTD,GTC and Day MCX= GTD,GTC,DAY and GFD All other markets= Blank
67	GFD/GTC/DAY/EOSS /GTC Retention Type	varchar(20)	Retention Type GTD only applicable for MCX and NCDEX market For MCX expiry date format = (in seconds from January 1, 1970) For NCDEX expiry date format = (in seconds from January 1, 1980)	BSE Equity= EOSESS or EOTODY NSE Equity= EOSESS MCX and NCDEX= EOSESS All other Markets= GFD
68	LogTime	char(10)	The time when the message was generated by the trading system host	e.g. 11:15:12
69	LogTime	char(10)	The time when the message was generated by the trading system host	e.g. 11:15:12
70	LastModifiedDateTime	bigint	This will contain time of last activity done on that order. Last activity could be order entry, order modification or last trade time of that order.	e.g. 11:15:12
71	IntraDay/CNC	varchar(5)	Internal Product Type for Cash and Carry (carry forward) or Intraday.	CNC=Y Intraday=N
72	Market	bigint	Market ID	e.g. 3 For details Refer to Appendix section 1.1

73	CounterPartyBroker	varchar(20)	This field specifies the Counter Party Broker code for the Negotiated Trade Order. This field is valid only for Negotiated Trade Orders. For other books, this field should be set to blank.	BSE Commodity,Currency and Repo=0 All other markets =Blank
74	Calevel	bigint	This field should contain the Corporate Action Level. OWN= 20 CLIENT= 30 SPLCLI= 40 INST= 90	CLIENT
75	Total wt	bigint	Total wt	BSE/MCX/NSE Commodity=Board Lot All other market= blank
76	TradingUnit	bigint	Trading unit	BSE/MCX/NSE Commodity=Trading Unit All other market= blank
77	VolumeRemaining	bigint	This field specifies the total quantity remaining from the original quantity after trade(s). For order entry, this field should be set to Volume. For every response, the trading system will return this value.	BSECommodity=Board Lot All other market= blank
78	SettlementType	varchar(2)	T0 or T1 Only Applicable for REPO Market.	e.g. T1 REPO= Repo Settlement type All other markets= balnk
79	RepoTenure	bigint	Repo Tenor (In Days)	e.g. 6 REPO= Repo tenure All other markets= blank
80	SecurityType	char(2)	Security type	e.g. CP REPO=Repo TransferAble All other markets= blank
81	TransferAble	bigint	Transferable=T	e.g. T

			Non Transferable security=NT	REPO= Repo Settlement type All other markets= blank
82	Volume	bigint	Repo order quantity.	e.g. 0 Volume= REPO volume All other markets=blank
83	VolumeRemaining	bigint	The total quantity remaining from the original quantity after trade(s). For order entry, this field should be set to Volume. For every response, the trading system will return this value.	e.g. 0 Only applicable for Repo Market.
84	Price		Repo Price	e.g. 10 Applicable only for Repo All other markets = blank
85	BUY/SELL	varchar(10)	Buy sell indicator	BUY

1.1.50 Add Order Confirmation message reply - TCP

Message Name	**AddOrder**
Type of Message	TCP Response
Description	This is the reply message sent in response to **Limit/Market order Add**. The reply message contains the message order and the status of the transaction after it was processed (i.e. **success or failure**). This is **short message** which can be used for displaying on Message Board.

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Message order	bigint	Message ID	57
2	Source	bigint	Exchange ID.	For details Refer to Appendix section 1.1
3	Market	bigint	Market ID.	For details Refer to Appendix section 1.1

4	Message	bigint	Order status message	BSE: 11:15:12 AM ORDER: 0 Buy 1 FUTCOM GOLD 03Aug2018 at 0.00 FOR Client1-T9065 BY Dealer1-T9065 CONFIRMED Reason: Order Added Successfully
5	Filler	Filler	Filler	o
6	Filler	Filler	Filler	o
7	BuySellIndicator	bigint	This field should specify whether the order is a buy or sell. Buy order=1 Sell order=2	1
8	USID	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	9
9	Token	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master	e.g. 7
10	Source	bigint	Exchange ID	For details Refer to Appendix section 1.1
11	Market	bigint	Market ID	For details Refer to Appendix section 1.1
13	OrderNumber	bigint	An Order Number assigned to the order. It is a unique identification for an order.	1541741932907001000
15	Transaction Code	bigint	This field should contain the transaction message number. This describes the type of message received.	Order Entry Rejection=2231 Order Entry Confirmation = 2073 Order Price Confirmation = 2012

1.1.51 Modify Limit, Market & Stop-loss PreEdit Order Request

Message Name	PreEditOrder
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **modify** a **Limit, Market order or Stop loss order.** This request can also be used to convert the order type from Limit to Market (i.e. **success or failure**). This is request can be used for fetching the order details from OMS before sending the actual modification request.

Field Name	Type	Description	Values, meanings, Validations
OEID	bigint	Unique order ID	e.g. 100000055
SessionKey	varchar(62)	Unique key for identify user session.	2007100101-04204209206155210210
Thick Client	char(1)	Thick client	Y

1.1.52 Modify Limit, Market & Stop-loss PreEdit Order Reply

Message Name	PreEditOrder
Type of Message	HTTP Response
Description	This is the reply message sent in response to **modify** a **Limit, Market order or Stop loss order** modify request. The reply message contains the Order id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum number of records	4		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	int	Successful=0 Failed=1	0
Record1:Field2	Error Details	varchar	If Field1= 1 then error message Otherwise blank	blank
Record2	Number of records	int	Number of order. In this case it is 1	1
Record3	Column Headers	varchar	Column Headers	OEID|OETableName|OEDirection|OESource|OEDestination|OEMarket|OESegment |OENSEToken|OEBSEToken|OEToken|OEISIN|OEInstrumentType|

				OESymbol|OESeries|OEExpiryDate| OEStrikePrice|OEOptionType| OEMessageType|OEType|OETimestamp| OELogTime|OEAlphaChar| OETransactionCode|OEErrorCode| OETimestamp1|OETimestamp2| OEUSID|OEUSLOGINID| OESubmitStatus| OEOrderNumber|OEBookType| OEBuySellIndicator|OEVolume| OEVolumeRemaining|OEDisclosedVolume| OEDisclosedVolumeRemaining| OEMinimumVolume|OEVolumeFilledToday| OEPrice|OETriggerPrice| OEFlags| OEBroker|OETraderId|OEBranchId| OERemarks|OEEntryDateTime| OELastModifiedDateTime| OEParticipantType| OECompetitorPeriod|OESolicitorPeriod| OEModifiedCancelledBy| OEReasonCode|OEAuctionNumber| OECounterPartyBroker| OESuspendedSecurity| OEGoodTillDate|OESettlor|OEProClientIndicator|OESettlementPeriod| OECALevel| OEOpenClose|OECoverUnCover| OEGiveUpFlag|OEPurpose| OEAdminUSID|OEReason| OEStatus|OEExpectedApproverID| OEActualApproverId|

				OEApproverRemarks|OECreatedBy|OECreatedAt|OELastUpdatedBy|OELastUpdatedAt|OEFIELD1|OEFIELD2|OEFIELD3|OEFIELD4|OEROWSTATE|OEUSBackOfficeId|GTC|USLOGINID|OEIntuitionalClient"
Record4	Column Data	varchar	Data as per Column header	100000134|ORDER|2|1|6|3|5|1400758|1400758|645||FUTCOM|COPPER||1535673600|-1|||1|1532008131|1532008131|CO|2012|0|0|0|16377|Client1-T9065|0|1531977745730000002|1|1|1|1|0|0|0|0|457.20|0.00|0|9065|906510003|0|100000132|1532008131|1532008131|0|4|0|0|0|0|0|0|1|9065|1|1|30|0|0|0|0|16377|Order Added Successfully|2|0|0||16377|19-07-2018 13:48:51:250|0||0||N|1111111111111012|1|Client1-T9065|| Client1-T9065|CLIENT

Detail Description of Record 3: Column Header

Field No	Field Name	Type	Description	Values, meanings, Validations
1	ODID	bigint	Internal order ID	100000134
2	OETableName	varchar(30)	Internal table name	e.g. Order
3	OEDirection	bigint	Request from System to exchange=1 Response from exchange to system=2	1 or 2
4	OESource	bigint	Order Entry Exchange ID.	For details Refer to Appendix section 1.1

5	OEDestination	bigint	Order Entry Exchange ID.	For details Refer to Appendix section 1.1
6	OEMarket	bigint	Market ID.	For details Refer to Appendix section 1.1
7	OESegment	bigint	Unique numeric Identifier for Product.	For details Refer to Appendix section 1.1
8	OENSEToken	bigint	NSE Exchange Instrument ID	BSE EQUITY= -1 All other markets = Exchange Instrument ID BSE Repo= NA
9	OEBSEToken	bigint	BSE Exchange Instrument ID	NSE Equity =0 NSE(Derivative & Currency) ,BSE SLB, and NCDEX = -1 MCX= 0 All other markets = Exchange Instrument ID
10	OEToken	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master.	e.g. 647
11	OEISIN	varchar(30)	ISIN number of security.	Equity & SLB= ISIN Number All other market= blank
12	OEInstrumentType	varchar(10)	Instrument type	EQUITY = blank REPO= Repo Type All other Markets = Instrument Type
13	OESymbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. COPPER
14	OESeries	char(2)	Unique Series Id	Equity= EQ/BE Repo= Security Type All other markets= blank
15	OEExpiryDate	bigint	Expiry date of the Scrip/Contract in seconds.	e.g. 1542585600 Equity contract= Blank All other Market= Contract expiry date
16	OEStrikePrice	bigint	Strike price of option contract.	Equity & Future contract = Blank Repo= Repo Tenor

				All other option Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
17	OEOptionType	char(2)	This field contains the option type. CALL= CE PUT = PE	Equity & Futures= blank Repo = Settlement Type Option Contract = CE/PE
18	OEMessageType	bigint	Message Type	Repo=1 All other markets=blank
19	OEType	bigint	Unique numeric Identifier for Product.	For details Refer to Appendix section 1.1
20	OETimestamp	bigint	This field contains the time in seconds when the message (reply) is sent from the host.	e.g. 1532008131 BSE SLB =0
21	OELogTime	bigint	This field contains the time in seconds when the message was generated by the trading system host.	e.g. 1532008131
22	OEAlphaChar	varchar(2)	This field should be set to the first two characters of Symbol if the structure contains Symbol and Series.	Equity = 0 All other market=First two character of symbol e.g. ALS=AL GOLD=GO EURINR= EU
23	OETransactionCode	bigint	unique numeric identifier order transaction code	Order Price Confirmation= 2012 Order Entry Confirmation = 2073 ORDER MODIFICATION CONFIRMATION = 2074
24	OEErrorCode	bigint	This field describes the type of error.	e.g. 0
25	OETimestamp1	bigint	NA	e.g. 0
26	OETimestamp2	bigint	NA	e.g. 0
27	OEUSID	bigint	Internal ID of the User who has placed the order.	e.g. 9
28	OEUSLOGINID	varchar(30)	The user ID/client ID for	Client1-T9065

			whom order to be place.	
29	OESubmitStatus	bigint	Order Submit Status	Order direction=1 then Submit status=2 Order direction=2 then Submit status is= 0
30	OEOrderNumber	bigint	Order Number assigned to the order. It is a unique identification for an order.	e.g. 1532327752154000000
31	OEBookType	bigint	Type of order. Limit =1 Stop Loss=3 OCO = 8	1
32	OEBuySellIndicator	bigint	Whether the order is a buy or sells. The field should take one of the following values. Buy order=1 Sell order=2	1
33	OEVolume	bigint	The Total order quantity.	e.g. 10
34	OEVolumeRemaining	bigint	The total quantity remaining from the original quantity after trade(s).	e.g. 4
35	OEDisclosedVolume	bigint	This field should contain the quantity that has to be disclosed to the market.	0
36	OEDisclosedVolumeRemaining	bigint	The disclosed volume remaining from the original disclosed volume after trade(s).	0
37	OEMinimumVolume	bigint	The minimum fill quantity when the minimum fill attribute is set for an order	e.g. 1 or 0
38	OEVolumeFilledToday	bigint	The total quantity traded in a day.	e.g. 6
39	OEPrice	bigint	The price at which the order is placed.	e.g. 450.50
40	OETriggerPrice	bigint	Trigger rate (for stoploss & OCO orders only). Trigger price always greater than order price.	Normal Order= 0 Stoploss or OCO orders= Trigger Price
41	OEFlags	bigint	NA	
42	OEBroker	bigint	The trading member ID.	e.g. 9065
43	OETraderId	bigint	The user ID of the user.	e.g. 906510003
44	OEBranchId	bigint	Branch number to which the broker belongs.	Equity & SLB = blank NSE all markets =1 All other market= 0
45	OERemarks	bigint	This field contains the	e.g. 100000132

Goto Index

			remarks.	
46	OEEntryDateTime	bigint	This field contains the date and time in seconds when the order entered the trading system. This is available in Order Confirmation/ Order Modification Confirmation response This field, while coming from the host, contains the date and time when the order entered the trading system.	e.g. 1532008131
47	OELastModifiedDateTime	bigint	In the case of order entry, this field will be same as Entry Date Time. After the order is modified it contains the time in seconds when the Order was last modified	e.g. 1532624259
48	OEParticipantType	varchar(20)	Participant type	0 or blank
49	OECompetitorPeriod	bigint	NA	NA
50	OESolicitorPeriod	bigint	This field set to zero.	e.g. 0
51	OEModifiedCancelledBy	varchar(1)	This field denote who has modified or cancelled a particular order. During order entry, this field should be blank. Trader=T Branch Manager=B	Applicable for NSE markets only BSE Equity,SLB and NSE all market= blank All other market= 0
52	OEReasonCode	bigint	Reason code for successful orders this field contains zero. Or a code for particular order request rejection or order freeze.	e.g. 0
53	OEAuctionNumber	bigint	This field contains the auction number.	
54	OECounterPartyBroker	varchar(20)	NA	NA
55	OESuspendedSecurity	char(1)	NA	
56	OEGoodTillDate	bigint	GTD Order or Good Till Date or retention. Order is a conditional request made to the broker (or the system) to keep the order in system till a	e.g. 1221696000 Applicable only for MCX and NCDEX Commodities

			predetermined date, unless it is executed or cancelled. Generally the order is valid for a day. For MCX expiry date format = (in seconds from January 1, 1970) For NCDEX expiry date format = (in seconds from January 1, 1980)	NCDEX = 0 or GTD date MCX = 0,1,-1, blank or GTD date BSE Equity(EOSESS) = 1 BSE Equity(EOTODY) = 2 BSE Repo = NA All other BSE markets =1 NSE all markets =0
57	OESettlor	bigint	The ID of the participants who are responsible for settling the trades through the custodians. By default, all orders are treated as broker's own orders and this field defaults to the Broker Code	e.g. 9065
58	OEProClientIndicator	bigint	Whether the order is entered on behalf of the broker or for a client. Client order=1 PRO(Broker) order=2	1
59	OESettlementPeriod	bigint	The number of days in a settlement cycle.	e.g. 1
60	OECALevel	bigint	Client types for BSE Segments only. OWN= 20 CLIENT= 30 SPLCLI= 40 INST= 90	e.g. 30
61	OEOpenClose	char(1)	Open=O Close=C	Equity & SLB = blank All other market= O or C
62	OECoverUnCover	char(1)	Uncovered=U Covered=V	Equity & SLB= blank All other market= 0 or U
63	OEGiveUpFlag	char(1)	NA	NA
64	OEPurpose	bigint	NA	NA

65	OEAdminUSID	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	e.g. 9
66	OEReason	varchar(250)	Order reply message.	BSE Equity & SLB =^ All other Markets =Order Added Successfully
67	OEStatus	bigint	Type of Order placed Normal(Exchange pending orders)=2 After market(AMO)=4 Batch order(offline orders not yet submitted to the exchange=5	2
68	OEExpectedApproverID	bigint	NA	NA
69	OEActualApproverId	bigint	NA	NA
70	OEApproverRemarks	varchar(50)	NA	NA
71	OECreatedBy	bigint	Users Internal ID who has placed the order.	e.g. 16377
72	OECreatedAt	datetime(8)	Order creation Time.	26-07-2018 16:57:39:783
73	OELastUpdatedBy	bigint	User ID who has last modified the order.	
74	OELastUpdatedAt	datetime(8)	Order last updated time.	e.g. blank
75	OEFIELD1	bigint	Type of Order	Limit =1 Market=2 Stop Loss=3 OCO = 8 NSE Derivative and Currency= Blank
76	OEFIELD2	bigint	Filler	NA
77	OEFIELD3	Varchar(5)	Internal Product Type for Cash and Carry (carry forward) or Intraday.	CNC=Y Intraday=N
78	OEFIELD4	varchar(50)	The Location Id of the end-user who is placing the orders should be registered with the Exchange. The location id consists of 16 digits and break-up of this Location Id is given below: 6 digits: Pin Code 4 digits: Branch Id 3 digits: User id 1 digit: Program Trading Possible Values 0 – No Program Trading	Its Different from Exchange to exchange

			1 – Program Trading Allowed 2 – DMA Allowed but No Program Trading 3 – DMA Allowed with Program Trading 4 – SOR 5 – Handheld Device 6 – SOR with DMA 7 – SOR with DMA with Program Trading 2 digits: Vendor Code	
79	OEROWSTATE	bigint	Rowstate	1
80	OEUSBackOfficeId	varchar(30)	This field contains the user ID/client ID for whom order placed.	Client1-T9065
81	GTC	bigint	A Good till Cancelled (GTC) order can be placed by an investor to buy or sell a security at a specified price that remains active until it is either cancelled by the investor or the trade is executed. If GTC= 1 Otherwise= 0	0
82	USLOGINID	varchar(30)	This field contain the user ID/client ID for whom order to be place.	Client1-T9065
83	OEIntuitionalClient	varchar(10)	Institutional Client	BSE Equity =Blank BSE REPO= CLIENT/PRO BSE All other markets and MCX= Client/SPLCLI NSE All markets and NCDEX= NA

1.1.53 Modify Limit, Market & Stop-loss Order Request

Message Name	**EditOrder**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **update** a **Limit, Market order or Stop loss order.** This request can also be used to convert the order type from Limit to Market.

Field Name	Type	Description	Values, meanings, Validations
OEToken	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master.	e.g. 244
OENSEToken	bigint	Exchange Instrument ID	BSE EQUITY= -1 BSE Repo = NA All other markets = Exchange Instrument ID
OEBSEToken	bigint	Exchange Instrument ID	BSE EQUITY and REPO =Exchange Instrument ID All other markets = NA NSE Equity = -1
OEDestination	bigint	Exchange ID.	For details Refer to Appendix section 1.1
OEMarket	bigint	Market ID.	For details Refer to Appendix section 1.1
InstrumentType	varchar(10)	Instrument Type	Equity= blank REPO = Repo Type All other Markets = Instrument Type For more details kindly refer respective table in Scrip/Contract Master Schema Format
OESymbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	ACC,ALS,GOLD,EUINR etc.
OEExpiryDate	bigint	This date is the actual last trading date of the Product.	Equity contract= NA All other market= contract expiry date
OEStrikePrice	bigint	Strike price of option contract.	Equity & Futures = blank Repo= Repo Tenor All other option

			Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
OEOptionType	char(2)	This field contains the option type. CALL =CE PUT = PE	Equity & Futures= blank Repo= Settlement Type Option Contract = CE/PE
OESeries	char(2)	Unique Series Id for security.	Equity= EQ/BE Repo= Security Type All other markets= blank
OEVolume	bigint	Trade quantity	e.g. 2
OEPrice	bigint	Order price	e.g. 1450
OETriggerPrice	bigint	Trigger rate (for stoploss & OCO orders only). Trigger price always greater than order price.	Normal Order= 0 Stoploss or OCO orders= Trigger Price
OEDisclosedVolume	bigint	The quantity that has to be disclosed to the market. It is not applicable if the order has either the All Or None or the Immediate Or Cancel attribute set. It should not be greater than the volume of the order and not less than the Minimum quantity as specified by Exchange	e.g. 0
USBackOfficeId	varchar(30)	The user ID/client ID for whom order to be place.	Client1-t9065 (UCC code should not be more than 10 characters)
OEFIELD3	varchar(5)	Internal Product Type for Cash and Carry (carry forward) or Intraday.	CNC=Y IntradDay=N
OEBuySellIndicator	bigint	Whether the order is a buy or sells. Buy=1 Sell=2	1
OEAlphaChar	char(2)	NA	
OEActualApproverId	bigint	NA	NA
OEVolumeRemaining	bigint	Remaining trade quantity	e.g. 1
OEDisclosedVolumeRemaining	bigint	Remaining Disclosed quantity	blank
OEAdminUSID	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	Equity=16377 All other Markets=NA
USID	bigint	The user ID/client ID for whom order	16377

		to be place.	
USLOGINID	varchar(30)	The user ID/client ID for whom order to be place.	Client1-t9065 (UCC code should not be more than 10 characters)
OEStatus	bigint	Type of Order Normal=2 After market(AMO)=4 Batch order=5	Equity =blank All other markets=NA
OEProClientIndicator	bigint	Whether the order is entered on behalf of the broker or a client/trader. Client=1 PRO(Broker)=2	2
OEParticipantType	varchar(10)	Type of participant	Equity = 0
OEIntuitionalClient	varchar(10)	Institutional Client	BSE Equity =Blank BSE REPO= CLIENT/PRO BSE All other markets and MCX= Client/SPLCLI NSE All markets and NCDEX= NA
OEGoodTillDate	bigint	GTD Order or Good Till Date Order is a conditional request made to the broker (or the system) to keep the order in system till a predetermined date, unless it is executed or cancelled. Generally the order is valid for a day For MCX expiry date format = (in seconds from January 1, 1970) For NCDEX expiry date format = (in seconds from January 1, 1980)	e.g. 1221696000 Applicable only for MCX and NCDEX Commodities NCDEX = 0 or GTD date MCX = 0,1,-1, blank or GTD date BSE Equity(EOSESS) = 1 BSE Equity(EOTODY) = 2 BSE Repo = NA BSE currency= 0 or blank All other BSE markets =Blank NSE all markets =0

IOC	bigint	An immediate or cancel order (IOC) IOC=1 For all others order type = 0	0
GTC	bigint	A Good till Canceled (GTC) order can be placed by an investor to buy or sell a security at a specified price that remains active until it is either cancelled by the investor or the trade is executed.	Applicable only for MCX and NCDEX Commodities MCX and NCDEX= 0 or 1 BSE Currency = 0 or IOC BSE REPO = Blank BSE Equity & NSE all markets = NA All other Markets=0
OESettlor	bigint	This field should specify the ID of the participants who are responsible for settling the trades through the custodians. By default, all orders are treated as broker's own orders and this field defaults to the Broker Code	Equity=NA All other Markets= blank
OETransactionCode	bigint	Unique order transaction code for modification	ORDER MODIFICATION REQUEST = 2040 In response of this request following response can received from Server. ORDER MODIFICATION REJECTION = 2042 ORDER MODIFICATION CONFIRMATION = 2074
OEID	bigint	Order internal id	e.g. 100000134
OEOrderNumber	bigint	Order internal number	e.g. 153197774573000000
OESource	bigint	Exchange name with Unique ID	For details Refer to Appendix section 1.1
OEBookType	bigint	Order type Limit =1	Applicable for BSE &

		Stop Loss=3 OCO = 8	NSE Equity All other market = NA
OEROWSTATE	bigint	Rowstate	1
OEField1	bigint	Order Type Limit =1 Market=2 Stop Loss=3 OCO = 8	Equity = NA
OESettlor	bigint	This field should specify the ID of the participants who are responsible for settling the trades through the custodians. By default, all orders are treated as broker's own orders and this field defaults to the Broker Code	e.g. 9065 Equity=NA All other Markets= OESettlor
OESegment	bigint	Unique numeric Identifier for Product.	For details Refer to Appendix section 1.1 Applicable only for Equity all other markets= NA
OEGroup	varchar(6)	Equity trading group	Equity= A All other markets are blank
BlockDeal	varchar(1)	Flag to identify order is Block deal	Block deal orders=Y all other orders=N
OEName	varchar(5)	NA	NA
OEReason	varchar(250)	Reason	BSE Equity= Blank
OEApproverRemarks	varchar(50)	NA	NA
OESolicitorPeriod	bigint	NA	NA
SessionKey	varchar(62)	Unique key for identify user session	2007100101-04204209206155210210
Thick Client	char(1)	Thick client	Y

1.1.54 Modify Limit, Market & Stop-loss Order Reply

Message Name	**EditOrder**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **update** a **Limit, Market order or Stop loss order** request. The reply message contains the status of the transaction after it was processed.

Response	Minimum number of records	2		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	int	Successful=0 Failed=1	0
Record1:Field2	Error details	varchar	If field= 1 then error message otherwise blank	
Record1:Field3	Number of records to modify	int	Number of records to modify	e.g. 1
Record2	blank	blank	blank	Blank

1.1.55 Modify Order Request - TCP

Message Name	**Modify Order**
Type of Message	TCP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **Modify a Limit, Market order** or **Stop loss order.**

Field Name	Type	Description	Values, meanings, Validations
MessageHeader	varchar	Message Header This is Fix Length Structure and details of the position are explained below in Message Header part.	Orders 2040 1241 FUTCUR EURINR 1543363200-1 40 11241 0 0 P100000273
ID	bigint	Blank	
TimeStamp	bigint	This field set to zero while sending messages to the host end. For messages coming from the host, this contains the time the message was generated by the trading system.	0
LogTime	bigint	This field should be set to numeric zero while sending to the host. This is used in host end.	0
AlphaChar	char(2)	blank	
TransactionCode	bigint	Transaction Code Modification Request = 2040	2040
ErrorCode	bigint	This Field set to zero while sending messages to the host. For messages coming from the host, this describes the type of error.	0
TimeStamp1	bigint	The time the message arrives at the trading system host. This Field set to numeric zero while sending to host.	0
TimeStamp2	bigint	This field set to numeric zero while	0

		sending to the host.	
UsId	bigint	The Internal ID for whom order to be place.	100021571
ParticipantType	varchar(20)	Partcipant Type	BSE Derivative & Currency= S BSE All & other markets =Blank
SubmitStatus	bigint	Request from TPS to exchange=1 Response from exchange to TPS system=2	Submit status=1
OrderNumber	bigint	This field must be sent as blank or zero for the Modify request.	1542348453190001005
BookType	bigint	Order Type Limit/Market =1 Stop Loss=3 OCO = 8	1
setBuySellIndicator	bigint	Whether the order is a buy or sell	Buy order=1 Sell order=2
Volume	bigint	This field contain the order quantity.	e.g. 4
VolumeRemaining	bigint	The total quantity remaining from the original quantity after trade(s). For order entry, this field should be set to Volume. For every response, OMS will return this value.	e.g. 7
DisclosedVolume	bigint	The quantity that has to be disclosed to the market. It is not applicable if the order has Immediate Or Cancel attribute set. It should not be greater than the volume of the order and not less than the Minimum quantity as specified by Exchange	0
DisclosedVolumeRemaining	bigint	This is the disclosed volume remaining from the original disclosed volume after trade(s).	0
MinimumVolume	bigint	NA	0
VolumeFilledToday	bigint	The total quantity traded in a day. It should be set to = 0(zero) while sending order entry request to the host.	0
setPrice	bigint	Price at which order is placed.	85.0425
TriggerPrice	bigint	This field is applicable only for a Stop Loss order and should be a multiple of the tick size. This field should contain the price at which the order is to be triggered and brought to the market. For a Stop Loss buy order, the trigger price will be less than or equal to the limit price but greater than the last traded price. For a Stop Loss sell	0

		order, the trigger price will be greater than or equal to the limit price but less than the last traded price.	
Flags	bigint	NA	0
Broker	bigint	Broker	0
TraderId	bigint	Trader ID	0
BranchId	bigint	NA	0
Remarks	bigint	Remarks	100000271
EntryDateTime	bigint	This field contains the date and time when the order entered the trading system. This is available in Order Confirmation/ Order Modification Confirmation response This field, while coming from the host, contains the date and time when the order entered the trading system. **This field should be set to zero while placing new order.**	0
LastModifiedDateTime	bigint	This contains time of last activity done on that order. Last activity could be order entry, order modification or last trade time of that order. While sending Order this should be set to 0.	0
UsLoginId	varchar(30)	The user ID/client ID for whom order to be place.	Client1-T9065 (UCC code should not be more than 10 characters)
CompetitorPeriod	bigint	The default competitor period for auction. This field will be set to zero.	0
SolicitorPeriod	bigint	Blank	
ModifiedCancelledBy	char(1)	This field denote who has modified or cancelled a particular order. During order entry, this field should be blank and applicable only for NSE segments. Trader=T	T
ReasonCode	bigint	During order entry, this field should be set to zero.	0
AuctionNumber	bigint	Auction number	0
CounterPartyBroker	varchar(20)	The Counter Party Broker code for the Negotiated Trade Order. This field is valid only for Negotiated Trade Orders. For other books, this field should be set to blank.	Blank

SuspendedSecurity	char(1)	Security is suspended.	Blank
GoodTillDate (Retention Type)	bigint	This field contains the number of days for a GTD order. GTD Order is a conditional request made to the broker (or the system) to keep the order in system till a predetermined date, unless it is executed or cancelled. Generally the order is valid for a day. If this field is non-zero, the GTC flag must be off. For MCX expiry date format = (in seconds from January 1, 1970) For NCDEX expiry date format = (in seconds from January 1, 1980)	BSE Equity EOTODY= 2 BSE Equity EOSESS= 1 All other markets= Blank
Settlor	varchar(14)	The ID of the participants who are responsible for settling the trades through the custodians. By default, all orders are treated as broker's own orders and this field defaults to the Broker Code	0 or Participant Id e.g. 9065
ProClientIndicator	bigint	Whether the order is entered on behalf of the broker (Pro Order) or a client. Client order= 1 Pro(broker) order= 2	1
SettlementPeriod	bigint	This field need to set to 0	0
CaLevel	bigint	This field should contain the Corporate Action Level Applicable for BSE. OWN= 20 CLIENT= 30 SPLCLI= 40 INST= 90	e.g. 30
OpenClose	char(1)	NA	Blank
CoverUnCover	char(1)	NA	Blank
GiveUpFlag	char(1)	NA	Blank
Purpose	bigint	NA	0
AdminUsId	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	9
Reason	varchar(1000)	Blank	Blank
Status	bigint	NA	0
ExpectedApproverId	bigint	NA	0
ActualApproverId	bigint	NA	Blank

ApproverRemarks	varchar(300)	blank	Blank
OldVolume	bigint	NA	0
OldPrice	bigint	NA	0
CreatedBy	bigint	Users Internal ID who has placed the order.	9
CreatedAt	datetime(8)	NA	11/16/2018 12:23:17 PM
UpdatedBy	bigint	NA	
UpdatedAt	datetime(8)	NA	
Field1	bigint	Order Type Limit/Market =1 Stop Loss=3 OCO = 8	1
Field2	bigint	Filler	Filler
Field3	char(1)	Internal Product Type for Cash and Carry (carry forward) or Intraday/delivery CNC=Y Intraday=N	N
Field4	bigint	Blank	
RowState	bigint	Rowstate	1
IOC	bigint	An immediate or cancel order (IOC) IOC=1 Otherwise = 0	0
AuctionId	bigint	blank	
BlockDeal	char(1)	Flag to identify order is Block deal. Block deal orders=Y All other orders=N	N
Retention Type	bigint	Retention type	E.g. GFD BSE & NSE Equity= 0 NSE All markets= DAY or IOC BSE Currency=GFD or IOC BSE All other markets=GFD MCX=GTD,GTC,EOSESS,IOC & GTDate NCDEX=DAY,GTC,IOC & GTDate
Price	bigint	Order Price	0
SessionKey	varchar(62)	Session Key to be sent in Order request which is received in Login Response.	1234851560-01035092

Detail Description of Message Header

HeaderLength=201, HeaderColumns=21
This message is fixed length Structure, blank should be sent in request if no values.

HeaderLength(Position) = HeaderColumns	Field(Header) Name	Type	Description	Values, meanings, Validations
0=10	Message ID	bigint	ID, NA	Blank
1=30	Table Name	Varchar(30)	Table name	Orders
2=10	Transaction Code	bigint	Transaction Code. Order Entry Request	2040
3=1	Direction	bigint	Request from TPS to exchange=1 Response from exchange to TPS system=2	1
4=10	Internal Token	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master	241
5=30	ISIN Number	bigint	ISIN number of Security	
6=10	Instrument Name	Varchar(50)	Instrument Name	e.g. HOUSING DEHDFC BSE Equity= Company name All other Market = Instrument name For more details kindly refer respective table in Scrip/Contract Master Schema Format
7=20	Symbol	Varchar(30)	Unique symbol / Asset Code defined for each asset.	HDFC
8=2	Series	Char(2)	Unique Series Id	Equity= EQ/BE Repo= Security Type All other markets= NA

9=10	Expiry Date	bigint	This date is the actual last trading date of the Product.	Equity contract= Blank All other Market= Contract expiry date
10=20	Strike Price	bigint	Strike price of option contract.	BSE & NSE Equity = Blank All other markets Future Contracts= -1 Repo= Repo Tenor All other option Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
11=10	Option Type	char(2)	This field contains the option type. CALL= CE PUT = PE	BSE & NSE Equity=Blank BSE other markets=Blank NSE & All other markets = XX This field contains the option type. Option Contract = CE/PE
12=1	Message Type	bigint	blank	
13=1	Market	bigint	Market ID	e.g. 1 For details Refer to Appendix section 1.1
14=3	Segment	bigint	Unique numeric Identifier for Segment.	e.g. 1 For details Refer to Appendix section 1.1
15=1	Source	bigint	Exchange ID	e.g. 1 For details Refer to Appendix section 1.1
16=1	Destination	bigint	Destination Exchange	e.g. 1 For details Refer to Appendix se
17=10	NSE Token	bigint	NSE Exchange	BSE Equity = -1

			Instrument ID/Token	All other Markets = Exchange Instrument ID
18=10	BSE Token	bigint	BSE Exchange Instrument ID/Token	BSE Equity = Exchange Instrument ID All other Markets= 0
19=10	Origin Time	bigint	Origin Time	0
20=1	Purpose	bigint	Purpose	P

1.1.56 Modify Order Reply - TCP

Message Name	**Modify Order**
Type of Message	TCP Response
Description	This is the reply message sent in response to **Limit/Market order Modify**. The reply message contains the Order id and the status of the transaction after it was processed (i.e. **success or failure**). This response will receive on Broadcast TCP channel.

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Message Type	bigint	Message ID	75
2	Transaction Code	bigint	The transaction message number. This describes the type of message received.	Order Modification Rejection=2042 Order Modification Confirmation = 2074
3	ID	bigint	Unique internal ID	100000279
4	Exchange	bigint	Exchange ID.	For details Refer to Appendix section 1.1
5	Market	bigint	Market ID.	For details Refer to Appendix section 1.1
6	Token	bigint	The token number of the Contract.This is internal token number received in Scrip/Contract Master.	e.g. 241
7	LogTime	bigint	This field set to zero while sending messages to the host. For messages coming from the host, this contains the time (In seconds) when the message was generated by the trading system host.	e.g. 1542370997
8	ErrorCode	bigint	Error code for order	e.g. 0

			response. Successful – 0 otherwise error code	
9	OrderNumber	bigint	Exchange order number	Eg. 1542348453190001005 Order rejection=0 Otherwise Exchange order number.
10	BookType	bigint	Type of order. Limit=1 Stoploss=3 OCO=8	1
11	Volume	bigint	Order quantity.	e.g. 4
12	VolumeRemaining	bigint	The total quantity remaining from the original quantity after trade(s). For order entry, this field should be set to Volume. For every response, the trading system will return this value.	e.g. 4
13	DisclosedVolume	bigint	Disclosed Volume sent in Order Request.	0
14	DisclosedVolumeRemaining	bigint	This is the disclosed volume remaining from the original disclosed volume after trade(s).	0
15	VolumeFilledToday	bigint	The total quantity traded in a day. It should be set to = 0(zero) while sending order entry request to the host.	0
16	Price	bigint	Price sent in Order request.	850425.0000
17	TriggerPrice	bigint	Trigger price sent in order request.	0
18	Flags	bigint	N.A.	e.g. 0
19	Broker	bigint	Trading member ID.	e.g. 9065
20	TraderId	bigint	Trader ID	e.g. 906501001
21	BranchId	bigint	Branch Id	0
22	Remarks	bigint	The Internal Order number/ remarks. This will be generated by OMS system.	e.g. 100000271
23	EntryDateTime	bigint	The date and time (seconds) when the order entered the trading system. This is available in Order	Equity= -19800 All other markets= 1536232534

			Confirmation/ Order Modification Confirmation response This field, while coming from the host, contains the date and time when the order entered the trading system. This field should be set to zero while sending to the host.	
24	LastModifiedDateTim e	bigint	This contains time in milliseconds of last activity done on that order. Last activity could be order entry, order modification or last trade time of that order.	e.g. 1542370997
25	ParticipantType	varchar(10)	ParticipantType	0
26	ModifiedCancelledBy	bigint	NA	0
27	ReasonCode	bigint	NA	e.g. 0
28	GoodTillDate	bigint	Date sent in Order request. This is applicable only for MCX & NCDEX.	e.g.1 BSE Equity & Commodity= Blank
29	ProClientIndicator	bigint	Whether the order is entered on behalf of the broker or a trader. Client order=1 Pro(broker) order=2	1
30	AdminUsId	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	9
31	USBackOfficeID	varchar(30)	The user ID/client ID who has logged in.	T9065
32	Reason	bigint	Order status message.	Order Updated Successfully
33	Status	bigint	NA	0
34	ExpectedApproverId	bigint	NA	0
35	ExpectedApprover BackOfficeID	bigint	NA	BSE Derivative,SLB,NSE Equity = SYSTEM All other markets = Blank
36	ActualApproverId	bigint	NA	0
37	ActualApprover BackOfficeID	bigint	NA	Blank

38	ApproverRemarks	varchar(50)	Approver Remarks	Blank
39	OldVolume	bigint	NA	e.g. 0
40	OldPrice	bigint	NA	850425
41	ErrorMessage	bigint	Blank	Blank
42	CreatedBy	bigint	Contract created Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	9
43	BackOfficeID	varchar(30)	The user ID/client ID who has logged in.	T9065
44	CreatedAt	datetime(8)	Order Entry time.	16-11-2018 12:23:17:518
45	LastUpdatedBy	bigint	User ID who has last modified th order.	0
46	Filler	Filler	Filler	Blank
47	LastUpdatedAt	datetime(8)	Contract last updated time.	Blank
48	Field1(CA Value)	bigint	CA Value for BSE	20
49	Field2	bigint	Filler	Filler
50	Field3	varchar(5)	Product Type Cash and Carry (carry forward) or Intraday.	CNC=Y Intraday=N
51	Field4	varchar(50)	The Location Id of the end-user who is placing the orders should be registered with the Exchange. The location id consists of 16 digits and break-up of this Location Id is given below: 6 digits: Pin Code 4 digits: Branch Id 3 digits: User id 1 digit: Program Trading Possible Values 0 – No Program Trading 1 – Program Trading Allowed 2 – DMA Allowed but No Program Trading 3 – DMA Allowed with Program Trading 4 – SOR 5 – Handheld Device 6 – SOR with DMA 7 – SOR with DMA with Program Trading	Its Different from Exchange to exchange

			2 digits: Vendor Code as as assigned by the exchange.	
52	RowState	bigint	RowState	Blank
53	UsId	bigint	This field contain the Internal ID for whom order to be place.	e.g. 100021571
54	BackOfficeID	varchar(30)	This field contain the user internal user login ID/client login ID for whom order to be place.	Client1-T9065
55	InstrumentType	varchar(10)	This field contains the type of the instrument.	EQUITY= Blank REPO= Repo Type All other Markets = Instrument Type like FUTSTK
56	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. EURINR18NOVFUT
57	Series	char(2)	Series ID for security.	Equity= EQ/BE Repo= Security Type All other markets= NA
58	ExpiryDate	bigint	This date is the actual last trading date of the Product. DD-MMM-YY FORMAT	e.g. 28 Nov 2018 Equity contract= NA All other Market= Contract Expiry Date
59	StrikePrice	bigint	Strike price of option contract.	Equity & Futures = blank Repo= Repo Tenor All other option Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
60	OptionType	char(2)	This field contains the option type. CALL= CE PUT= PE	Equity & Futures= blank Repo= Settlement Type Option Contract = CE/PE

61	BuySellIndicator	bigint	Whether the order is a buy or sell	Buy order=1 Sell order=2
62	Remarks	bigint	This field contains the remarks.	e.g. 100000271
63	AuctionNumber	bigint	The auction number. The maximum value this can take is 9999. Other than auction it is set to zero.	e.g. 0
64	Settlor	varchar(14)	This field will receive the ID of the participants who are responsible for settling the trades through the custodians. By default, all orders are treated as broker's own orders and this field defaults to the Broker Code	e.g. 9065
65	Value	bigint	Total Value	e.g. 340170
66	GFD/GTC/DAY/EOSS /GTC Retention Type	varchar(20)	Retention Type GTD only applicable for MCX and NCDEX market For MCX expiry date format = (in seconds from January 1, 1970) For NCDEX expiry date format = (in seconds from January 1, 1980)	BSE Commodity,Repo and Currency= GFD BSE ITP = EOSS NSE all market= blank NCDEX=GTD,GTC and Day MCX= GTD,GTC,DAY and GFD All other markets= Blank
67	GFD/GTC/DAY/EOSS /GTC Retention Type	varchar(20)	Retention Type GTD only applicable for MCX and NCDEX market For MCX expiry date format = (in seconds from January 1, 1970) For NCDEX expiry date format = (in seconds from January 1, 1980)	BSE Equity= EOSESS or EOTODY NSE Equity= EOSESS MCX and NCDEX= EOSESS All other Markets= GFD
68	LogTime	char(10)	The time when the message was generated	e.g. 12:23:17

			by the trading system host	
69	LogTime	char(10)	The time when the message was generated by the trading system host	e.g. 12:23:17
70	LastModifiedDateTime	bigint	This will contain time of last activity done on that order. Last activity could be order entry, order modification or last trade time of that order.	e.g. 12:23:17
71	IntraDay/CNC	varchar(5)	Internal Product Type for Cash and Carry (carry forward) or Intraday.	CNC=Y Intraday=N
72	Market	bigint	Market ID	e.g. 4 For details Refer to Appendix section 1.1
73	CounterPartyBroker	varchar(20)	This field specifies the Counter Party Broker code for the Negotiated Trade Order. This field is valid only for Negotiated Trade Orders. For other books, this field should be set to blank.	BSE Commodity,Currency and Repo=0 All other markets =Blank
74	Calevel	bigint	This field should contain the Corporate Action Level. OWN= 20 CLIENT= 30 SPLCLI= 40 INST= 90	30
75	Total wt	bigint	Total wt	BSE/MCX/NSE Commodity=Board Lot All other market= blank
76	TradingUnit	bigint	Trading unit	BSE/MCX/NSE Commodity=Trading Unit All other market= blank
77	VolumeRemaining	bigint	This field specifies the total quantity remaining from the original quantity after trade(s). For order entry, this field should be set to Volume. For every response, the trading	BSECommodity=Board Lot All other market= blank

			system will return this value.	
78	SettlementType	varchar(2)	T0 or T1 Only Applicable for REPO Market.	REPO= Repo Settlement type All other markets= balnk
79	RepoTenure	bigint	Repo Tenor (In Days)	REPO= Repo tenure All other markets= blank
80	SecurityType	bigint	Security type	REPO=Repo TransferAble All other markets= blank
81	TransferAble	bigint	Transferable=T Non Transferable security=NT	REPO= Repo Settlement type All other markets= blank
82	Volume	bigint	Repo order quantity.	Volume= REPO volume All other markets=blank
83	VolumeRemaining	bigint	The total quantity remaining from the original quantity after trade(s). For order entry, this field should be set to Volume. For every response, the trading system will return this value.	Only applicable for Repo Market.
84	Price		Repo Price	Applicable only for Repo All other markets = blank
85	BUY/SELL	varchar(10)	Buy sell indicator	BUY

1.1.57 Modify Order Confirmation Message Reply - TCP

Message Name	**Modify Order**
Type of Message	TCP Response
Description	This is the reply message sent in response to **Limit/Market Order Modify**. The reply message contains the message order and the status of the transaction after it was processed (i.e. **success or failure**). This is **short message** which can be used for displaying on Message Board.

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Message order	bigint	Message ID	57
2	Source	bigint	Exchange ID.	For details Refer to Appendix section 1.1

3	Market	bigint	Market ID.	For details Refer to Appendix section 1.1
4	Message	bigint	Order status message	BSE: 12:23:17 PM ORDER: 1542348453190001005 Buy 4 FUTCUR EURINR 28Nov2018 at 85.0425 FOR RAMYAD-T9065 BY T9065 MODIFIED Reason: Order Updated Successfully
5	Filler	Filler	Filler	o
6	Filler	Filler	Filler	o
7	BuySellIndicator	bigint	This field should specify whether the order is a buy or sell. Buy order=1 Sell order=2	1
8	USID	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	100021571
9	Token	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master	e.g. 241
10	Source	bigint	Exchange ID	For details Refer to Appendix section 1.1
11	Market	bigint	Market ID	For details Refer to Appendix section 1.1
13	OrderNumber	bigint	An Order Number assigned to the order. It is a unique identification for an order.	1542348453190001005
15	Transaction Code	bigint	This field should contain the transaction message number. This describes the type of message received.	Order Modification Rejection=2042 Order Modification Confirmation = 2074

1.1.58 MultiLeg Order Request - HTTP

Message Name	**AddMultiLegOrder**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **Add Multileg order.**

Field Name	Type	Description	Values, meanings, Validations
OEDestination	bigint	Exchange Name	For details Refer to Appendix section 1.1
OEMarket	bigint	Market type with unique ID	For details Refer to Appendix section 1.1
OEToken	bigint	This field contains the token number of the Contract. This is internal token number received in scrip/contract master.	1
OENSEToken	bigint	Exchange Instrument ID	e.g. 500002
OESymbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	ABB
OEInstrumentType	varchar(10)	This field contains the type of the instrument.	EQUITY= Blank REPO= Repo Type All other Markets = Instrument Type For more details kindly refer respective table in Scrip/Contract Master Schema Format
OEExpiryDate	bigint	This date is the actual last trading date of the Product in seconds.	e.g. 1543363200 Equity contract= Blank All other Market= Contract expiry date
OEStrikePrice	bigint	Strike price of option contract.	Equity = Blank BSE all Future contract = -1 Repo= Repo Tenor All other option Contract = Strike price *100 Currency Option Contract =Strike Price * 10000

OEOptionType	char(2)	This field contains the option type. CALL= CE PUT = PE	Equity & Future contract= Blank Repo = Settlement Type Option Contract = CE/PE
OEVolume	bigint	This field should contain the order quantity.	e.g. 1
OEPrice	bigint	This field should contain the price at which the order is placed. The price must be a multiple of the tick size. To enter a Market order The price should be set to zero.	e.g. 1946.65
OETriggerPrice	bigint	This field is applicable only for a Stop Loss order and should be a multiple of the tick size. This field should contain the price at which the order is to be triggered and brought to the market. For a Stop Loss buy order, the trigger price will be less than or equal to the limit price but greater than the last traded price. For a Stop Loss sell order, the trigger price will be greater than or equal to the limit price but less than the last traded price.	
OEVolumeRemaining	bigint	This field specifies the total quantity remaining from the original quantity after trade.	
OEBuySellIndicator	bigint	This field should specify whether the order is a buy or sell. Buy order = 1 Sell order = 2	1
OEDisclosedVolume	bigint	This field should contain the quantity that has to be disclosed to the market. It is not applicable if the order has either the All Or None or the Immediate Or Cancel attribute set. It should not be greater than the volume of the order and not less than the Minimum quantity as specified by Exchange	
OESolicitorPeriod	varchar(20)	Solicitor Period	TRUE
USBackOfficeId	varchar(30)	This field should contain the user ID/client ID for whom order to be place.	Client1-T9065 OR BROKER (UCC code should not be more than 10

			characters)
OEReason	varchar(200)	Reason	Blank
GTC	bigint	A Good till Canceled (GTC) order can be placed by an investor to buy or sell a security at a specified price that remains active until it is either cancelled by the investor or the trade is executed.	
IOC	bigint	Immediate or cancel order	1
USID	bigint	Internal ID of the User/Client for whom order to be place. Client=Internal ID PRO order=0	100021643
USLOGINID	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	16377
OEProClientIndicator	bigint	Whether the order is entered on behalf of the broker (Pro Order) or a client. Client = Blank Pro(broker) order = 2	2
OESettlor	varchar(14)	This field should specify the ID of the participants who are responsible for settling the trades through the custodians. By default, all orders are treated as broker's own orders and this field defaults to the Broker Code	Blank
OEOrderNumber	bigint	This field contains an Order Number assigned to the order. It is a unique identification for an order.	Blank
OEClient	bigint	Client Type	Client
OEField1	bigint	This field should contain the type of order. All=0	0
OEIntuitionalClient	Varchar(10)	Institutional Client CLIENT= Blank Broker= PRO	PRO
OESeries	char(2)	Unique Series Id for security.	Blank
OEApproverRemarks	varchar(50)	Approver Remarks	Blank
OEGoodTillDate	bigint	This field contains the number of days for a GTD order. GTD Order is a conditional request made to the broker (or the system) to keep the order in system till a predetermined date, unless it is	

		executed or cancelled. Generally the order is valid for a day. If this field is non-zero, the GTC flag must be off. For MCX expiry date format = (in seconds from January 1, 1970) For NCDEX expiry date format = (in seconds from January 1, 1980)	
AON	char(1)	All or none Buy or sell stocks executed entirely or none. All= Y None=N	N
OEFIELD3	varchar(5)	Internal Product Type for Cash and Carry (carry forward) or Intraday. CNC = Y Intraday = N	N
TotalMultiLegOrders	bigint	Total number of orders.	2
OEMarket2	bigint	Market type with unique ID	For details Refer to Appendix section 1.1
OEToken2	bigint	This field contains the token number of the Contract. This is internal token number received in Scrip/Contract Master	244
OENSEToken2	bigint	Exchange Instrument ID	500410
OESymbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	HCC
OENAME2	varchar(5)	For equity details name of company and all other markets symbol with expiry date.	NA
OEInstrumentType2	varchar(10)	This field contains the type of the instrument.	EQUITY= Blank REPO= Repo Type All other Markets = Instrument Type
OEExpiryDate2	bigint	This date is the actual last trading date of the Product in seconds.	e.g. 1561507200 Equity contract= blank All other Market= Contract expiry date
OEStrikePrice2	bigint	This date is the actual last trading date of the Product in seconds.	e.g. 845000 Equity =Blank Future contract= -1

			Currency Option Contract= Strike Price * 10000 All other market= Strike Price * 100
OEOptionType2	char(2)	This field contains the option type. CALL= CE PUT = PE	Equity & Futures= Blank Repo = Settlement Type Option Contract = CE/PE
OEVolume2	bigint	This field should contain the order quantity.	10
OEPrice2	bigint	This field should contain the order quantity.	e.g 1500.50
OETriggerPrice2	bigint	This field should contain the price at which the order is placed. The price must be a multiple of the tick size. To enter a Market order The price should be set to zero.	e.g. 1546.65
OEVolumeRemaining2	bigint	This field specifies the total quantity remaining from the original quantity after trade.	Blank
OEBuySellIndicator2	bigint	This field should specify whether the order is a buy or sell. Buy Order=1 Sell Order=2	2
OEDisclosedVolume2	bigint	This field should contain the quantity that has to be disclosed to the market. It is not applicable if the order has either the All Or None or the Immediate Or Cancel attribute set. It should not be greater than the volume of the order and not less than the Minimum quantity as specified by Exchange	
OESolicitorPeriod2	varchar(20)	Solicitor Period	Blank
SessionKey	varchar(62)	Unique key for identify user session	2007100101-0420420920615521 0210
Thick Client	char(1)	Thick client	Y

Note:-

- Only Equity/Derivative cross market allowed.
- Product ID should be same for multileg orders scripts.
- NA: not Applicable (If any request parameter marked as 'NA' then there is any need to pass that parameter in any request for that particular Exchanges & Markets.
- Client can place maximum four orders in MultiLeg Order Entry.
- Multileg order allowed only for BSE markets.

1.1.59 MultiLeg Order Reply - HTTP

Message Name	AddMultiLegOrder
Type of Message	HTTP Response
Description	This is the reply message sent in response to **Multileg order** request. The reply message contains the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum Number of Records	1	HTTP Response	
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of Request	int	Successful=0 Failed=1	0
Record1:Field2	Error Details message	varchar	Blank=Successful Internal Rejection details if failed (Field1 = 1)	
Record1:Field3	blank	blank	blank	0

1.1.60 MultiLeg Order Reply - TCP

Message Name	AddMultiLegOrder
Type of Message	TCP Response
Description	This is the reply message sent in response to **MultiLeg Order**. The reply message contains the Order id and the status of the transaction after it was processed (i.e. **success or failure**). This response will receive on Broadcast or Order Gateway TCP channel based on Connect message.

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Message Type	bigint	Message ID	75
2	Transaction Code	bigint	The transaction message number. This describes the type of message received.	Order Entry Rejection=2231 Order Entry Confirmation = 2073 Order Cancellation Cofirmation= 2075 Order Price Confirmation= 2012
3	ID	bigint	Unique internal ID	100000925
4	Exchange	bigint	Exchange ID.	For details Refer to Appendix section 1.1
5	Market	bigint	Market ID.	For details Refer to Appendix section 1.1

6	Token	bigint	The token number of the Contract.This is internal token number received in Scrip/Contract Master.	e.g. 1
7	LogTime	bigint	This field set to zero while sending messages to the host. For messages coming from the host, this contains the time (In seconds) when the message was generated by the trading system host.	e.g. 1533208512
8	ErrorCode	bigint	Error code for order response. Successful – 0 otherwise error code	0
9	OrderNumber	bigint	Exchange order number	Eg. 1556600763727001013 Order rejection=0 Otherwise Exchange order number.
10	BookType	bigint	Type of order. Limit=1 Stoploss=3 OCO=8	1
11	Volume	bigint	Order quantity.	e.g. 1
12	VolumeRemaining	bigint	The total quantity remaining from the original quantity after trade(s). For order entry, this field should be set to Volume. For every response, the trading system will return this value.	e.g. 1
13	DisclosedVolume	bigint	Disclosed Volume sent in Order Request.	0
14	DisclosedVolumeRemaining	bigint	This is the disclosed volume remaining from the original disclosed volume after trade(s).	0
15	VolumeFilledToday	bigint	The total quantity traded in a day. It should be set to = 0(zero) while sending order entry request to the host.	0
16	Price	bigint	Price sent in Order request.	1450.00
17	TriggerPrice	bigint	Trigger price sent in order request.	

18	Flags	bigint	N.A.	e.g. 0
19	Broker	bigint	Trading member ID.	9065
20	TraderId	bigint	Trader ID	e.g. 9065100202
21	BranchId	bigint	Branch Id	0
22	Remarks	bigint	The Internal Order number/ remarks. This will be generated by OMS system.	e.g. 100000923
23	EntryDateTime	bigint	The date and time (seconds) when the order entered the trading system. This is available in Order Confirmation/ Order Modification Confirmation response	Equity= -19800 All other markets= 1536232534
24	LastModifiedDateTime	bigint	This contains time in milliseconds of last activity done on that order. Last activity could be order entry, order modification or last trade time of that order.	e.g. 1533208512
25	ParticipantType	varchar(20)	ParticipantType	Blank
26	ModifiedCancelledBy	bigint	NA	NA
27	ReasonCode	bigint	NA	e.g. 0
28	GoodTillDate	bigint	Date sent in Order request. This is applicable only for MCX & NCDEX.	BSE Equity & Commodity= Blank
29	ProClientIndicator	bigint	Whether the order is entered on behalf of the broker or a trader. Client order=1 Pro(broker) order=2	1
30	AdminUsId	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	9
31	USBackOfficeID	varchar(30)	The user ID/client ID who has logged in.	Dealer1-T9065
32	Reason	varchar(200)	Order status message.	MultiLeg Order RefNo=100041888 Order Added Successfully[MultiLeg]
33	Status	bigint	NA	e.g. 0
34	ExpectedApproverId	bigint	NA	
35	ExpectedApprover BackOfficeID	bigint	NA	BSE Derivative,SLB,NSE

				Equity = SYSTEM All other markets = Blank
36	ActualApproverId	bigint	NA	
37	ActualApprover BackOfficeID	Filler	NA	Blank
38	ApproverRemarks	varchar(50)	Blank	Blank
39	OldVolume	bigint	NA	e.g. 0
40	OldPrice	bigint	NA	e.g. 0
41	ErrorMessage	bigint	Blank	Blank
42	CreatedBy	bigint	Contract created Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	9
43	BackOfficeID	varchar(30)	The user ID/client ID who has logged in.	Dealer1-T9065
44	CreatedAt	datetime(8)	Order Entry time.	02-08-2018 11:15:12:740
45	LastUpdatedBy	bigint	User ID who has last modified th order.	Blank
46	Filler	Filler	Filler	Blank
47	LastUpdatedAt	datetime(8)	Contract last updated time.	Blank
48	Field1(CA Value)	bigint	CA Value for BSE	
49	Field2	bigint	Filler	Filler
50	Field3	varchar(5)	Product Type Cash and Carry (carry forward) or Intraday.	CNC=Y Intraday=N
51	Field4	varchar(50)	The Location Id of the end-user who is placing the orders should be registered with the Exchange. The location id consists of 16 digits and break-up of this Location Id is given below: 6 digits: Pin Code 4 digits: Branch Id 3 digits: User id 1 digit: Program Trading Possible Values 0 – No Program Trading 1 – Program Trading Allowed 2 – DMA Allowed but No Program Trading	Its Different from Exchange to exchange

			3 – DMA Allowed with Program Trading 4 – SOR 5 – Handheld Device 6 – SOR with DMA 7 – SOR with DMA with Program Trading 2 digits: Vendor Code as as assigned by the exchange.	
52	RowState	bigint	RowState	Blank
53	UsId	bigint	This field contain the Internal ID for whom order to be place.	e.g. 9
54	BackOfficeID	varchar(30)	This field contain the user internal user login ID/client login ID for whom order to be place.	Client1-T9065
55	InstrumentType	varchar(10)	This field contains the type of the instrument.	EQUITY= Blank REPO= Repo Type All other Markets = Instrument Type
56	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. ABB
57	Series	char(2)	Series ID for security.	Equity= EQ/BE Repo= Security Type All other markets= NA
58	ExpiryDate	bigint	This date is the actual last trading date of the Product. DD-MMM-YY FORMAT	e.g. 20-Jun-19 Equity contract= Blank All other Market= Contract Expiry Date
59	StrikePrice	bigint	Strike price of option contract.	Equity & Futures = blank Repo= Repo Tenor All other option Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
60	OptionType	char(2)	This field contains the	BSE All markets,NSE

			option type. CALL= CE PUT= PE	Equity = Blank NSE & all other markets = XX Repo= Settlement Type otherwise XX Option Contract = CE/PE
61	BuySellIndicator	bigint	Whether the order is a buy or sells. Buy order=1 Sell order=2	1
62	Remarks	bigint	This field contains the remarks.	e.g. 100000923
63	AuctionNumber	bigint	The auction number. The maximum value this can take is 9999. Other than auction it is set to zero.	e.g. 0
64	Settlor	varchar(14)	This field will received the ID of the participants who are responsible for settling the trades through the custodians. By default, all orders are treated as broker's own orders and this field defaults to the Broker Code	e.g. 9065
65	Value	bigint	Total Value	e.g. 0
66	GFD/GTC/DAY/EOSS /GTC Retention Type	varchar(20)	Retention Type GTD only applicable for MCX and NCDEX market For MCX expiry date format = (in seconds from January 1, 1970) For NCDEX expiry date format = (in seconds from January 1, 1980)	BSE Commodity,Repo and Currency= GFD BSE ITP = EOSS NSE all market= blank NCDEX=GTD,GTC and Day MCX= GTD,GTC,DAY and GFD All other markets= Blank
67	GFD/GTC/DAY/EOSS /GTC Retention Type	varchar(20)	Retention Type GTD only applicable for MCX and NCDEX market	BSE Equity= EOSESS or EOTODY NSE Equity= EOSESS

			For MCX expiry date format = (in seconds from January 1, 1970) For NCDEX expiry date format = (in seconds from January 1, 1980)	MCX and NCDEX= EOSESS All other Markets= GFD
68	LogTime	char(10)	The time when the message was generated by the trading system host	e.g. 11:15:12
69	LogTime	char(10)	The time when the message was generated by the trading system host	e.g. 11:15:12
70	LastModifiedDateTim e	bigint	This will contain time of last activity done on that order. Last activity could be order entry, order modification or last trade time of that order.	e.g. 11:15:12
71	IntraDay/CNC	varchar(5)	Internal Product Type for Cash and Carry (carry forward) or Intraday.	CNC=Y Intraday=N
72	Market	bigint	Market ID	e.g. 1 For details Refer to Appendix section 1.1
73	CounterPartyBroker	varchar(20)	This field specifies the Counter Party Broker code for the Negotiated Trade Order. This field is valid only for Negotiated Trade Orders. For other books, this field should be set to blank.	BSE Commodity,Currency and Repo=0 All other markets =Blank
74	Calevel	bigint	This field should contain the Corporate Action Level. OWN= 20 CLIENT= 30 SPLCLI= 40 INST= 90	CLIENT
75	Total wt	bigint	Total wt	BSE/MCX/NSE Commodity=Board Lot All other market= blank

76	TradingUnit	bigint	Trading unit	BSE/MCX/NSE Commodity=Trading Unit All other market= blank
77	VolumeRemaining	bigint	This field specifies the total quantity remaining from the original quantity after trade(s). For order entry, this field should be set to Volume. For every response, the trading system will return this value.	BSECommodity=Board Lot All other market= blank
78	SettlementType	varchar(2)	T0 or T1 Only Applicable for REPO Market.	e.g. T1 REPO= Repo Settlement type All other markets= balnk
79	RepoTenure	bigint	Repo Tenor (In Days)	e.g. 6 REPO= Repo tenure All other markets= blank
80	SecurityType	char(2)	Security type	e.g. CP REPO=Repo TransferAble All other markets= blank
81	TransferAble	bigint	Transferable=T Non Transferable security=NT	e.g. T REPO= Repo Settlement type All other markets= blank
82	Volume	bigint	Repo order quantity.	e.g. 0 Volume= REPO volume All other markets=blank
83	VolumeRemaining	bigint	The total quantity remaining from the original quantity after trade(s). For order entry, this field should be set to Volume. For every response, the trading system will return this value.	e.g. 0 Only applicable for Repo Market.
84	Price		Repo Price	e.g. 10 Applicable only for Repo

				All other markets = blank
85	BUY/SELL	varchar(10)	Buy sell indicator	BUY

1.1.61 MultiLeg Order Confirmation message reply - TCP

Message Name	**AddMultiLegOrder**
Type of Message	TCP Response
Description	This is the reply message sent in response to **MultiLeg Order**.The reply message contains the message order and the status of the transaction after it was processed (i.e. **success or failure**). This is **short message** which can be used for displaying on Message Board.

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Message order	bigint	Message ID	57
2	Source	bigint	Exchange ID.	For details Refer to Appendix section 1.1
3	Market	bigint	Market ID.	For details Refer to Appendix section 1.1
4	Message	bigint	Order status message	BSE: 30-04-2019 13:35:01:000 ORDER: 0 Buy 1 ABB-EQ at 1450.00 FOR RAMYAD-T9065 BY RAMYAD-T9065 CONFIRMED Reason: MultiLeg Order RefNo=100041888 Order Added Successfully[MultiLeg]
5	Filler	Filler	Filler	o
6	Filler	Filler	Filler	o
7	BuySellIndicator	bigint	This field should specify whether the order is a buy or sell. Buy order=1 Sell order=2	1
8	USID	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	9
9	Token	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master	1
10	Source	bigint	Exchange ID	For details Refer to Appendix section 1.1

11	Market	bigint	Market ID	For details Refer to Appendix section 1.1
13	OrderNumber	bigint	An Order Number assigned to the order. It is a unique identification for an order.	1556600763727001013
15	Transaction Code	bigint	This field should contain the transaction message number. This describes the type of message received.	Order Entry Rejection=2231 Order Entry Confirmation = 2073 Order Price Confirmation = 2012

1.1.62 MultiLeg2 Order Reply - TCP

Message Name	**AddMultiLegOrder**
Type of Message	TCP Response
Description	This is the reply message sent in response to **MultiLeg2 Order**. The reply message contains the Order id and the status of the transaction after it was processed (i.e. **success or failure**). This response will receive on Broadcast or Order Gateway TCP channel based on Connect message.

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Message Type	bigint	Message ID	75
2	Transaction Code	bigint	The transaction message number. This describes the type of message received.	Order Entry Rejection=2231 Order Entry Confirmation = 2073 Order Cancellation Cofirmation= 2075 Order Price Confirmation= 2012
3	ID	bigint	Unique internal ID	100000925
4	Exchange	bigint	Exchange ID.	For details Refer to Appendix section 1.1
5	Market	bigint	Market ID.	For details Refer to Appendix section 1.1
6	Token	bigint	The token number of the Contract.This is internal token number received in	e.g. 1

			Scrip/Contract Master.	
7	LogTime	bigint	This field set to zero while sending messages to the host. For messages coming from the host, this contains the time (In seconds) when the message was generated by the trading system host.	e.g. 100041948
8	ErrorCode	bigint	Error code for order response. Successful – 0 otherwise error code	0
9	OrderNumber	bigint	Exchange order number	Eg. 1556600763727002001 Order rejection=0 Otherwise Exchange order number.
10	BookType	bigint	Type of order. Limit=1 Stoploss=3 OCO=8	1
11	Volume	bigint	Order quantity.	e.g. 1
12	VolumeRemaining	bigint	The total quantity remaining from the original quantity after trade(s). For order entry, this field should be set to Volume. For every response, the trading system will return this value.	e.g. 1
13	DisclosedVolume	bigint	Disclosed Volume sent in Order Request.	0
14	DisclosedVolumeRemaining	bigint	This is the disclosed volume remaining from the original disclosed volume after trade(s).	0
15	VolumeFilledToday	bigint	The total quantity traded in a day. It should be set to = 0(zero) while sending order entry request to the host.	0
16	Price	bigint	Price sent in Order request.	1450.00
17	TriggerPrice	bigint	Trigger price sent in order request.	
18	Flags	bigint	N.A.	e.g. 0
19	Broker	bigint	Trading member ID.	9065
20	TraderId	bigint	Trader ID	e.g. 9065100202

21	BranchId	bigint	Branch Id	0
22	Remarks	bigint	The Internal Order number/ remarks. This will be generated by OMS system.	e.g. 100041946
23	EntryDateTime	bigint	The date and time (seconds) when the order entered the trading system. This is available in Order Confirmation/ Order Modification Confirmation response	Equity= -19800 All other markets= 1556591701
24	LastModifiedDateTime	bigint	This contains time in milliseconds of last activity done on that order. Last activity could be order entry, order modification or last trade time of that order.	e.g. 1556611501
25	ParticipantType	varchar(20)	ParticipantType	Blank
26	ModifiedCancelledBy	bigint	NA	NA
27	ReasonCode	bigint	NA	e.g. 0
28	GoodTillDate	bigint	Date sent in Order request. This is applicable only for MCX & NCDEX.	BSE Equity & Commodity= Blank
29	ProClientIndicator	bigint	Whether the order is entered on behalf of the broker or a trader. Client order=1 Pro(broker) order=2	1
30	AdminUsId	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	9
31	USBackOfficeID	varchar(30)	The user ID/client ID who has logged in.	Dealer1-T9065
32	Reason	varchar(200)	Order status message.	MultiLeg Order RefNo=100041888 Order Added Successfully[MultiLeg]
33	Status	bigint	NA	e.g. 0
34	ExpectedApproverId	bigint	NA	
35	ExpectedApprover BackOfficeID	bigint	NA	BSE Derivative,SLB,NSE Equity = SYSTEM All other markets =

				Blank
36	ActualApproverId	bigint	NA	
37	ActualApprover BackOfficeID	Filler	NA	Blank
38	ApproverRemarks	varchar(50)	Blank	Blank
39	OldVolume	bigint	NA	e.g. 0
40	OldPrice	bigint	NA	e.g. 0
41	ErrorMessage	bigint	Blank	Blank
42	CreatedBy	bigint	Contract created Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	9
43	BackOfficeID	varchar(30)	The user ID/client ID who has logged in.	Dealer1-T9065
44	CreatedAt	datetime(8)	Order Entry time.	02-08-2018 11:15:12:740
45	LastUpdatedBy	bigint	User ID who has last modified th order.	Blank
46	Filler	Filler	Filler	Blank
47	LastUpdatedAt	datetime(8)	Contract last updated time.	Blank
48	Field1(CA Value)	bigint	CA Value for BSE	
49	Field2	bigint	Filler	Filler
50	Field3	varchar(5)	Product Type Cash and Carry (carry forward) or Intraday.	CNC=Y Intraday=N
51	Field4	varchar(50)	The Location Id of the end-user who is placing the orders should be registered with the Exchange. The location id consists of 16 digits and break-up of this Location Id is given below: 6 digits: Pin Code 4 digits: Branch Id 3 digits: User id 1 digit: Program Trading Possible Values 0 – No Program Trading 1 – Program Trading Allowed 2 – DMA Allowed but No Program Trading 3 – DMA Allowed with Program Trading 4 – SOR	Its Different from Exchange to exchange

			5 – Handheld Device 6 – SOR with DMA 7 – SOR with DMA with Program Trading 2 digits: Vendor Code as as assigned by the exchange.	
52	RowState	bigint	RowState	Blank
53	UsId	bigint	This field contain the Internal ID for whom order to be place.	e.g. 9
54	BackOfficeID	varchar(30)	This field contain the user internal user login ID/client login ID for whom order to be place.	Client1-T9065
55	InstrumentType	varchar(10)	This field contains the type of the instrument.	EQUITY= Blank REPO= Repo Type All other Markets = Instrument Type
56	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. HCC
57	Series	char(2)	Series ID for security.	Equity= EQ/BE Repo= Security Type All other markets= NA
58	ExpiryDate	bigint	This date is the actual last trading date of the Product. DD-MMM-YY FORMAT	e.g. 20-Jun-19 Equity contract= Blank All other Market= Contract Expiry Date
59	StrikePrice	bigint	Strike price of option contract.	Equity & Futures = blank Repo= Repo Tenor All other option Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
60	OptionType	char(2)	This field contains the option type. CALL= CE PUT= PE	BSE All markets,NSE Equity = Blank NSE & all other

				markets = XX Repo= Settlement Type otherwise XX Option Contract = CE/PE
61	BuySellIndicator	bigint	Whether the order is a buy or sells. Buy order=1 Sell order=2	1
62	Remarks	bigint	This field contains the remarks.	e.g. 100041946
63	AuctionNumber	bigint	The auction number. The maximum value this can take is 9999. Other than auction it is set to zero.	e.g. 0
64	Settlor	varchar(14)	This field will received the ID of the participants who are responsible for settling the trades through the custodians. By default, all orders are treated as broker's own orders and this field defaults to the Broker Code	e.g. 9065
65	Value	bigint	Total Value	e.g. 0
66	GFD/GTC/DAY/EOSS /GTC Retention Type	varchar(20)	Retention Type GTD only applicable for MCX and NCDEX market For MCX expiry date format = (in seconds from January 1, 1970) For NCDEX expiry date format = (in seconds from January 1, 1980)	BSE Commodity,Repo and Currency= GFD BSE ITP = EOSS NSE all market= blank NCDEX=GTD,GTC and Day MCX= GTD,GTC,DAY and GFD All other markets= Blank
67	GFD/GTC/DAY/EOSS /GTC Retention Type	varchar(20)	Retention Type GTD only applicable for MCX and NCDEX market For MCX expiry date format = (in seconds	BSE Equity= EOSESS or EOTODY NSE Equity= EOSESS MCX and NCDEX= EOSESS

			from January 1, 1970) For NCDEX expiry date format = (in seconds from January 1, 1980)	All other Markets= GFD
68	LogTime	char(10)	The time when the message was generated by the trading system host	e.g. 11:15:12
69	LogTime	char(10)	The time when the message was generated by the trading system host	e.g. 11:15:12
70	LastModifiedDateTime	bigint	This will contain time of last activity done on that order. Last activity could be order entry, order modification or last trade time of that order.	e.g. 11:15:12
71	IntraDay/CNC	varchar(5)	Internal Product Type for Cash and Carry (carry forward) or Intraday.	CNC=Y Intraday=N
72	Market	bigint	Market ID	e.g. 1 For details Refer to Appendix section 1.1
73	CounterPartyBroker	varchar(20)	This field specifies the Counter Party Broker code for the Negotiated Trade Order. This field is valid only for Negotiated Trade Orders. For other books, this field should be set to blank.	BSE Commodity,Currency and Repo=0 All other markets =Blank
74	Calevel	bigint	This field should contain the Corporate Action Level. OWN= 20 CLIENT= 30 SPLCLI= 40 INST= 90	CLIENT
75	Total wt	bigint	Total wt	BSE/MCX/NSE Commodity=Board Lot All other market= blank
76	TradingUnit	bigint	Trading unit	BSE/MCX/NSE Commodity=Trading Unit

				All other market= blank
77	VolumeRemaining	bigint	This field specifies the total quantity remaining from the original quantity after trade(s). For order entry, this field should be set to Volume. For every response, the trading system will return this value.	BSECommodity=Board Lot All other market= blank
78	SettlementType	varchar(2)	T0 or T1 Only Applicable for REPO Market.	e.g. T1 REPO= Repo Settlement type All other markets= balnk
79	RepoTenure	bigint	Repo Tenor (In Days)	e.g. 6 REPO= Repo tenure All other markets= blank
80	SecurityType	char(2)	Security type	e.g. CP REPO=Repo TransferAble All other markets= blank
81	TransferAble	bigint	Transferable=T Non Transferable security=NT	e.g. T REPO= Repo Settlement type All other markets= blank
82	Volume	bigint	Repo order quantity.	e.g. 0 Volume= REPO volume All other markets=blank
83	VolumeRemaining	bigint	The total quantity remaining from the original quantity after trade(s). For order entry, this field should be set to Volume. For every response, the trading system will return this value.	e.g. 0 Only applicable for Repo Market.
84	Price		Repo Price	e.g. 10 Applicable only for Repo All other markets = blank

85	BUY/SELL	varchar(10)	Buy sell indicator	BUY

1.1.63 MultiLeg2 Order Confirmation message reply – TCP

Message Name	**AddMultiLegOrder**
Type of Message	TCP Response
Description	This is the reply message sent in response to **MultiLeg2 Order**.The reply message contains the message order and the status of the transaction after it was processed (i.e. **success or failure**). This is **short message** which can be used for displaying on Message Board.

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Message order	bigint	Message ID	57
2	Source	bigint	Exchange ID.	For details Refer to Appendix section 1.1
3	Market	bigint	Market ID.	For details Refer to Appendix section 1.1
4	Message	bigint	Order status message	BSE: 30-04-2019 13:35:01:000 ORDER: 0 SELL 1 HCC-EQ at 1450.00 FOR RAMYAD-T9065 BY RAMYAD-T9065 CONFIRMED Reason: MultiLeg Order RefNo= 100041893 Order Added Successfully[MultiLeg]
5	Filler	Filler	Filler	o
6	Filler	Filler	Filler	o
7	BuySellIndicator	bigint	This field should specify whether the order is a buy or sell. Buy order=1 Sell order=2	1
8	USID	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	9
9	Token	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master	107
10	Source	bigint	Exchange ID	For details Refer to Appendix section 1.1

11	Market	bigint	Market ID	For details Refer to Appendix section 1.1
13	OrderNumber	bigint	An Order Number assigned to the order. It is a unique identification for an order.	1556600763727002001
15	Transaction Code	bigint	This field should contain the transaction message number. This describes the type of message received.	Order Entry Rejection=2231 Order Entry Confirmation = 2073 Order Price Confirmation = 2012

1.1.64 Delete All Limit, Market & Stop-loss Order Request

Message Name	**DeleteOrder**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **Delete all** a **Limit, Market order or Stop loss order.**

Field Name	Type	Description	Values, meanings, Validations
OEID	bigint	Internal Order Numbers. In this case multiple Order Ids to be sent with comma separated format.	e.g. 100003854, 100003855
OETransactionCode	bigint	Unique order transaction code for delete all order	ORDER CANCELLATION REQUEST = 2070 ORDER CANCELLATION REJECTION = 2072 ORDER CANCELLATION CONFIRMATION = 2075
OEDestination	bigint	Exchange ID	For details Refer to Appendix section 1.1
SessionKey	varchar(62)	Unique key for identify user session.	2007100101-04204209206155210210
Thick Client	char(1)	Thick client	Y

1.1.65 Delete All Limit, Market & Stop-loss Order Reply

Message Name	**DeleteOrder**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **Delete all** a **Limit, Market order or Stop loss order** request. The reply message the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum number of records**	**2**		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	int	Successful=0 Failed=1	0
Record 1:Field2	Error Details	varchar	If Field1=1 then Error details Otherwise Number of order deleted	3
Record2	blank	blank	blank	blank

1.1.66 Delete All Limit, Market & Stop-loss Order Request - TCP

Message Name	**DeleteOrder**
Type of Message	TCP Request
Description	This request message is sent by the TPS to the BOW when the user wants to delete all **Add a Limit, Market order** or **Stop loss order.** Below response will be received per orderwise multiple times.

Field Name	**Type**	**Description**	**Values, meanings, Validations**
MessageHeader	varchar	Message Header This is Fix Length Structure and details of the position are explained below in Message Header part.	Orders 2070 10 00 000 0 0
ID	bigint	Blank	
TimeStamp	bigint	This field set to zero while sending messages to the host end. For messages coming from the host, this contains the time the message was generated by the trading system.	0
LogTime	bigint	This field should be set to numeric zero while sending to the host. This is used in host end.	0
AlphaChar	char(2)	blank	
TransactionCode	bigint	Transaction Code Order cancellation Request = 2070	2070

ErrorCode	bigint	This Field set to zero while sending messages to the host. For messages coming from the host, this describes the type of error.	0
TimeStamp1	bigint	The time the message arrives at the trading system host. This Field set to numeric zero while sending to host.	0
TimeStamp2	bigint	This field set to numeric zero while sending to the host.	0
UsId	bigint	The Internal ID for whom order to be place.	0
ParticipantType	varchar(20)	Participant Type	BSE Derivative & Currency= S BSE All & other markets =Blank
SubmitStatus	bigint	Request from TPS to exchange=1 Response from exchange to TPS system=2	1
OrderNumber	bigint	This field must be sent as blank or zero for the order entry request.	0
BookType	bigint	Order Type Limit/Market =1 Stop Loss=3 OCO = 8	0
setBuySellIndicator	bigint	Whether the order is a buy or sell Buy order=1 Sell order=2	0
Volume	bigint	This field contain the order quantity.	0
VolumeRemaining	bigint	The total quantity remaining from the original quantity after trade(s). For order entry, this field should be set to Volume. For every response, OMS will return this value.	0
DisclosedVolume	bigint	The quantity that has to be disclosed to the market. It is not applicable if the order has Immediate Or Cancel attribute set. It should not be greater than the volume of the order and not less than the Minimum quantity as specified by Exchange	0
DisclosedVolumeRemaining	bigint	This is the disclosed volume remaining from the original disclosed volume after trade(s).	0
MinimumVolume	bigint	NA	
VolumeFilledToday	bigint	The total quantity traded in a day. It should be set to = 0(zero) while sending order entry request to the host.	0
setPrice	bigint	Price at which order is placed.	0

TriggerPrice	bigint	This field is applicable only for a Stop Loss order and should be a multiple of the tick size. This field should contain the price at which the order is to be triggered and brought to the market. For a Stop Loss buy order, the trigger price will be less than or equal to the limit price but greater than the last traded price. For a Stop Loss sell order, the trigger price will be greater than or equal to the limit price but less than the last traded price.	0
Flags	bigint	NA	0
Broker	bigint	Broker	0
TraderId	bigint	Trader ID	0
BranchId	bigint	NA	0
Remarks	bigint	Remarks	100000808
EntryDateTime	bigint	This field contains the date and time when the order entered the trading system. This is available in Order Confirmation/ Order Modification Confirmation response This field, while coming from the host, contains the date and time when the order entered the trading system. **This field should be set to zero while placing new order.**	0
LastModifiedDateTime	bigint	This contains time of last activity done on that order. Last activity could be order entry, order modification or last trade time of that order. While sending Order this should be set to 0.	0
UsLoginId	varchar(30)	The user ID/client ID for whom order to be place.	
CompetitorPeriod	bigint	The default competitor period for auction. This field will be set to zero.	0
SolicitorPeriod	bigint	NA	0
ModifiedCancelledBy	char(1)	This field denote who has modified or cancelled a particular order. During order entry, this field should be blank and applicable only for NSE segments. Trader=T	T
ReasonCode	bigint	During order entry, this field should be set to zero.	0

AuctionNumber	bigint	Auction number	0
CounterPartyBroker	varchar(20)	The Counter Party Broker code for the Negotiated Trade Order. This field is valid only for Negotiated Trade Orders. For other books, this field should be set to blank.	Blank
SuspendedSecurity	char(1)	Security is suspended.	Blank
GoodTillDate	bigint	This field contains the number of days for a GTD order. GTD Order is a conditional request made to the broker (or the system) to keep the order in system till a predetermined date, unless it is executed or cancelled. Generally the order is valid for a day. If this field is non-zero, the GTC flag must be off. For MCX expiry date format = (in seconds from January 1, 1970) For NCDEX expiry date format = (in seconds from January 1, 1980)	BSE Equity EOTODY= 2 BSE Equity EOSESS= 1 All other markets= Blank
Settlor	varchar(14)	The ID of the participants who are responsible for settling the trades through the custodians. By default, all orders are treated as broker's own orders and this field defaults to the Broker Code	0 or Participant Id
ProClientIndicator	bigint	Whether the order is entered on behalf of the broker (Pro Order) or a client. Client order= 1 Pro(broker) order= 2	1
SettlementPeriod	bigint	This field need to set to 0	0
CaLevel	bigint	This field should contain the Corporate Action Level Applicable for BSE. OWN= 20 CLIENT= 30 SPLCLI= 40 INST= 90	e.g. 30
OpenClose	char(1)	NA	Blank
CoverUnCover	char(1)	NA	Blank
GiveUpFlag	char(1)	NA	Blank
Purpose	bigint	NA	0
AdminUsId	bigint	Internal ID of the User who has	9

		logged in. This ID will be provided by BOW Server in Logon response.	
Reason	varchar(1000)	Blank	
Status	bigint	NA	0
ExpectedApproverId	bigint	NA	0
ActualApproverId	bigint	NA	
ApproverRemarks	varchar(300)	blank	0
OldVolume	bigint	NA	0
OldPrice	bigint	NA	0
CreatedBy	bigint	Users Internal ID who has placed the order.	0
CreatedAt	datetime(8)	NA	
UpdatedBy	bigint	NA	
UpdatedAt	datetime(8)	NA	
Field1	bigint	Order Type Limit/Market =1 Stop Loss=3 OCO = 8	1
Field2	bigint	Filler	Filler
Field3	bigint	Internal Product Type for Cash and Carry (carry forward) or Intraday/delivery	blank
Field4	bigint	Order ID	100000810
RowState	bigint	Rowstate	0
IOC	bigint	An immediate or cancel order (IOC) IOC=1 Otherwise = 0	
AuctionId	bigint	blank	
BlockDeal	bigint	Flag to identify order is Block deal. Block deal orders=Y All other orders=N	
Retention Type	bigint	Retention type	E.g. GFD BSE & NSE Equity= 0 NSE All markets= DAY or IOC BSE Currency=GFD or IOC BSE All other markets=GFD MCX=GTD,GTC, EOSESS,IOC & GTDate NCDEX=DAY,GTC,IOC & GTDate
Price	bigint	Order Price	

SessionKey	varchar(62)	Session Key to be sent in Order request which is received in Login Response.	1552101419-03108113059110114114

Detail Description of Message Header

HeaderLength=201, HeaderColumns=21

This message is fixed length Structure, blank should be sent in request if no values.

HeaderLength(Position)= HeaderColumns	Field(Header) Name	Type	Description	Values, meanings, Validations
0=10	Message ID	bigint	ID, NA	Blank
1=30	Table Name	varchar(30)	Table name	Orders
2=10	Transaction Code	bigint	Transaction Code. Order cancellation request.	2070
3=1	Direction	bigint	Request from TPS to exchange=1 Response from exchange to TPS system=2	1
4=10	Internal Token	bigint	This field contains the token number of the Contract. This is internal token number received in Scrip/Contract Master	0
5=30	ISIN Number	bigint	ISIN number of Security	
6=10	Instrument Name	varchar(50)	Instrument Name BSE Equity= Company name All other Market = Instrument name	e.g. HOUSING DEHDFC BSE Equity= Company name All other Market = Instrument name For more details kindly refer respective table in Scrip/Contract Master Schema Format
7=20	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	HDFC

8=2	Series	char(2)	Unique Series Id	Equity= EQ/BE Repo= Security Type All other markets= NA
9=10	Expiry Date	bigint	This date is the actual last trading date of the Product. Equity contract= NA All other Market= Contract expiry date	Equity contract= NA All other Market= Contract expiry date
10=20	Strike Price	bigint	Strike price of option contract. Equity & Futures = blank Repo= Repo Tenor All other option Contract = Strike price *100 Currency Option Contract =Strike Price * 10000	BSE & NSE Equity = Blank All other markets Future Contracts= -1 Repo= Repo Tenor All other option Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
11=10	Option Type	char(2)	This field contains the option type. CALL= CE PUT = PE	BSE & NSE Equity=Blank BSE other markets=Blank NSE & All other markets = XX This field contains the option type. Option Contract = CE/PE
12=1	Message Type	bigint	blank	
13=1	Market	bigint	Market ID	e.g. 0 For details Refer to Appendix section 1.1
14=3	Segment	bigint	Unique numeric Identifier for Segment.	e.g. 0 For details Refer to Appendix section

				1.1
15=1	Source	bigint	Exchange ID	e.g. 0 For details Refer to Appendix section 1.1
16=1	Destination	bigint	Destination Exchange	e.g. 0 For details Refer to Appendix se
17=10	NSE Token	bigint	NSE Exchange Instrument ID/Token	BSE Equity = -1 All other Markets = Exchange Instrument ID
18=10	BSE Token	bigint	BSE Exchange Instrument ID/Token	BSE Equity = Exchange Instrument ID All other Markets= 0
19=10	Origin Time	bigint	Origin Time	0
20=1	Purpose	bigint	Purpose	

1.1.67 Delete All Limit, Market & Stop-loss Order Reply - TCP

Message Name	**DeleteOrder**
Type of Message	TCP Response
Description	This is the reply message sent in response to **Delete all** a **Limit, Market order or Stop loss order** request. The reply message the status of the transaction after it was processed (i.e. **success or failure**).

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Message Type	bigint	Message ID	75
2	Transaction Code	bigint	The transaction message number. This describes the type of message received. Order Cancellation rejection = 2072 Order Cancellation Confirmation = 2075	2075
3	ID	bigint	Unique internal ID	100000364
4	Exchange	bigint	Exchange ID.	For details Refer to Appendix section 1.1
5	Market	bigint	Market ID.	For details Refer to Appendix section 1.1
6	Token	bigint	The token number of the	e.g. 5

			Contract. This is internal token number received in Scrip/Contract Master.	
7	LogTime	bigint	This field set to zero while sending messages to the host. For messages coming from the host, this contains the time (In seconds) when the message was generated by the trading system host.	e.g. 1542352804
8	ErrorCode	bigint	Error code for order response. Successful – 0 otherwise error code	e.g. 0
9	OrderNumber	bigint	Exchange order number	Eg. 1542348016946000000 Order rejection=0 Otherwise Exchange order number.
10	BookType	bigint	Type of order. Limit=1 Stoploss=3 OCO=8	1
11	Volume	bigint	Order quantity.	e.g. 5
12	VolumeRemaining	bigint	The total quantity remaining from the original quantity after trade(s). For order entry, this field should be set to Volume. For every response, the trading system will return this value.	e.g. 5
13	DisclosedVolume	bigint	Disclosed Volume sent in Order Request.	0
14	DisclosedVolumeRemaining	bigint	This is the disclosed volume remaining from the original disclosed volume after trade(s).	0
15	VolumeFilledToday	bigint	The total quantity traded in a day. It should be set to = 0(zero) while sending order entry request to the host.	0
16	Price	bigint	Price	169755
17	TriggerPrice	bigint	Trigger price sent in order request.	

18	Flags	bigint	N.A.	e.g. 0
19	Broker	bigint	Trading member ID.	e.g. 9065
20	TraderId	bigint	Trader ID	e.g. 906510003
21	BranchId	bigint	Branch Id	
22	Remarks	bigint	The Internal Order number/ remarks. This will be generated by OMS system.	e.g. 100000357
23	EntryDateTime	bigint	The date and time (seconds) when the order entered the trading system. This is available in Order Confirmation/ Order Modification Confirmation response This field, while coming from the host, contains the date and time when the order entered the trading system. This field should be set to zero while sending to the host.	Equity= -19800 All other markets= 1536232534
24	LastModifiedDateTime	bigint	This contains time in milliseconds of last activity done on that order. Last activity could be order entry, order modification or last trade time of that order.	e.g. 1542352804
25	ParticipantType	varchar(10)	ParticipantType	Blank
26	ModifiedCancelledBy	bigint	ModifiedCancelledBy	Blank
27	ReasonCode	bigint	NA	e.g. 0
28	GoodTillDate	bigint	Date sent in Order request. This is applicable only for MCX & NCDEX.	BSE Equity & Commodity= Blank
29	ProClientIndicator	bigint	Whether the order is entered on behalf of the broker or a trader. Client order=1 Pro(broker) order=2	1
30	AdminUsId	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	9
31	USBackOfficeID	varchar(30)	The user ID/client ID who has logged in.	Dealer1-T9065

32	Reason	bigint	Order status message.	5 Qty Deleted Successfully
33	Status	bigint	NA	e.g. 0
34	ExpectedApproverId	bigint	NA	
35	ExpectedApprover BackOfficeID	bigint	NA	BSE Derivative, SLB,NSE Equity = SYSTEM All other markets = Blank
36	ActualApproverId	bigint	NA	
37	ActualApprover BackOfficeID	bigint	NA	Blank
38	ApproverRemarks	varchar(50)	Approver Remarks	Blank
39	OldVolume	bigint	NA	e.g. 0
40	OldPrice	bigint	NA	e.g. 0
41	ErrorMessage	bigint	Blank	Blank
42	CreatedBy	bigint	Contract created Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	9
43	BackOfficeID	varchar(30)	The user ID/client ID who has logged in.	Dealer1-T9065
44	CreatedAt	datetime(8)	Order Entry time.	02-08-2018 11:15:12:740
45	LastUpdatedBy	bigint	User ID who has last modified th order.	Blank
46	Filler	Filler	Filler	Blank
47	LastUpdatedAt	datetime(8)	Contract last updated time.	Blank
48	Field1(CA Value)	bigint	CA Value for BSE	
49	Field2	bigint	Filler	Filler
50	Field3	varchar(5)	Product Type Cash and Carry (carry forward) or Intraday.	CNC=Y Intraday=N
51	Field4	varchar(50)	The Location Id of the end-user who is placing the orders should be registered with the Exchange. The location id consists of 16 digits and break-up of this Location Id is given below: 6 digits: Pin Code 4 digits: Branch Id 3 digits: User id 1 digit: Program Trading	e.g. 1111111111111010 It is Different from Exchange to exchange

			Possible Values 0 – No Program Trading 1 – Program Trading Allowed 2 – DMA Allowed but No Program Trading 3 – DMA Allowed with Program Trading 4 – SOR 5 – Handheld Device 6 – SOR with DMA 7 – SOR with DMA with Program Trading 2 digits: Vendor Code as as assigned by the exchange.	
52	RowState	bigint	RowState	Blank
53	UsId	bigint	This field contain the Internal ID for whom order to be place.	e.g. 9
54	BackOfficeID	varchar(30)	This field contain the user internal user login ID/client login ID for whom order to be place.	Client1-T9065
55	InstrumentType	varchar(10)	This field contains the type of the instrument.	EQUITY= blank REPO= Repo Type All other Markets = Instrument Type like FUTSTK
56	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. GOLD
57	Series	char(2)	Series ID for security.	Equity= EQ/BE Repo= Security Type All other markets= NA
58	ExpiryDate	bigint	This date is the actual last trading date of the Product. DD-MMM-YY FORMAT	e.g. 20-Jun-19 Equity contract= NA All other Market= Contract Expiry Date
59	StrikePrice	bigint	Strike price of option contract.	Equity & Futures = blank Repo= Repo Tenor All other option Contract = Strike price *100 Currency Option Contract =Strike Price *

				10000
60	OptionType	char(2)	This field contains the option type. CALL= CE PUT= PE	Equity & Futures= blank Repo= Settlement Type Option Contract = CE/PE
61	BuySellIndicator	bigint	Whether the order is a buy or sell	Buy order=1 Sell order=2
62	Remarks	bigint	This field contains the remarks.	e.g. 100000526
63	AuctionNumber	bigint	The auction number. The maximum value this can take is 9999. Other than auction it is set to zero.	e.g. 0
64	Settlor	varchar(14)	This field will received the ID of the participants who are responsible for settling the trades through the custodians. By default, all orders are treated as broker's own orders and this field defaults to the Broker Code	e.g. 9065
65	Value	bigint	Total Value	e.g. 3595.10
66	GFD/GTC/DAY/EOSS /GTC Retention Type	varchar(20)	Retention Type GTD only applicable for MCX and NCDEX market For MCX expiry date format = (in seconds from January 1, 1970) For NCDEX expiry date format = (in seconds from January 1, 1980)	BSE Commodity, Repo and Currency= GFD BSE ITP = EOSS NSE all market= blank NCDEX=GTD,GTC and Day MCX= GTD,GTC,DAY and GFD All other markets= Blank
67	GFD/GTC/DAY/EOSS /GTC Retention Type	varchar(20)	Retention Type GTD only applicable for MCX and NCDEX market For MCX expiry date format = (in seconds from January 1, 1970) For NCDEX expiry date	BSE Equity= EOSESS or EOTODY NSE Equity= EOSESS MCX and NCDEX= EOSESS All other Markets= GFD

			format = (in seconds from January 1, 1980)	
68	LogTime	char(10)	The time when the message was generated by the trading system host	e.g. 12:50:04
69	LogTime	char(10)	The time when the message was generated by the trading system host	e.g. 12:50:04
70	LastModifiedDateTime	bigint	This will contain time of last activity done on that order. Last activity could be order entry, order modification or last trade time of that order.	e.g. 12:50:04
71	IntraDay/CNC	varchar(5)	Internal Product Type for Cash and Carry (carry forward) or Intraday.	CNC=Y Intraday=N
72	Market	bigint	Market ID	e.g. 3 For details Refer to Appendix section 1.1
73	CounterPartyBroker	varchar(20)	This field specifies the Counter Party Broker code for the Negotiated Trade Order. This field is valid only for Negotiated Trade Orders. For other books, this field should be set to blank.	BSE Commodity, Currency and Repo=0 All other markets =Blank
74	Calevel	bigint	This field should contain the Corporate Action Level. OWN= 20 CLIENT= 30 SPLCLI= 40 INST= 90	Client
75	Total wt	bigint	Total wt	BSE/MCX/NSE Commodity=Board Lot All other market= blank
76	TradingUnit	bigint	Trading unit	BSE/MCX/NSE Commodity=Trading Unit All other market= blank
77	VolumeRemaining	bigint	This field specifies the total quantity remaining from the original quantity after trade(s). For order	BSECommodity=Board Lot All other market= blank

			entry, this field should be set to Volume. For every response, the trading system will return this value.	
78	SettlementType	varchar(2)	T0 or T1 Only Applicable for REPO Market.	REPO= Repo Settlement type All other markets= balnk
79	RepoTenure	bigint	Repo Tenor (In Days)	REPO= Repo tenure All other markets= blank
80	SecurityType	bigint	Security type CP/CD/CB	REPO=Repo TransferAble All other markets= blank
81	TransferAble	bigint	Transferable=T Non Transferable security=NT	REPO= Repo Settlement type All other markets= blank
82	Volume	bigint	Repo order quantity.	e.g. 0 Volume= REPO volume All other markets=blank
83	VolumeRemaining	bigint	The total quantity remaining from the original quantity after trade(s). For order entry, this field should be set to Volume. For every response, the trading system will return this value.	Only applicable for Repo Market.
84	Price		Repo Price	Applicable only for Repo All other markets = blank
85	BUY/SELL	varchar(10)	Buy sell indicator	BUY

1.1.68 Delete All Order Confirmation Message Reply - TCP

Message Name	**DeleteOrder**
Type of Message	TCP Response
Description	This is the reply message sent in response to **Limit/Market order Add**. The reply message contains the message order and the status of the transaction after it was processed (i.e. **success or failure**). This is **short message** which can be used for displaying on Message Board.

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Message order	bigint	Message ID	57
2	Source	bigint	Exchange ID.	For details Refer to Appendix section 1.1
3	Market	bigint	Market ID.	For details Refer to Appendix section 1.1
4	Message	bigint	Order status message	BSE: 16-11-2018 12:50:04:000 ORDER: 1542348016946002020 Buy 5 HDFC-EQ at 1697.55 FOR Client1-T9065 BY Dealer1-T9065 CANCELLATION CONFIRMED Reason: 5 Qty Deleted Successfully ~O
5	Filler	Filler	Filler	o
6	Filler	Filler	Filler	o
7	BuySellIndicator	bigint	This field should specify whether the order is a buy or sell. Buy order=1 Sell order=2	1
8	USID	bigint	This field should contain the user ID/client ID for whom order to be Deleted.	16377
9	Token	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master	e.g. 5
10	Source	bigint	Exchange ID	For details Refer to Appendix section 1.1
11	Market	bigint	Market ID	For details Refer to Appendix section 1.1
13	OrderNumber	bigint	An Order Number assigned to the order. It is a unique identification for an order.	1542348016946002020

15	Transaction Code	bigint	This field should contain the transaction message number. This describes the type of message received. Order Cancellation rejection = 2072 Order Cancellation Confirmation = 2075	2075

1.1.69 Delete Selected Limit, Market & Stop-loss Order Request

Message Name	**DeleteOrder**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **Delete only selected** a **Limit, Market order or Stop loss order.**

Field Name	Type	Description	Values, meanings, Validations
OEID	bigint	Internal Order id	100003854
OETransactionCode	bigint	Transaction code for deleting single order	ORDER CANCELLATION REQUEST = 2070 ORDER CANCELLATION REJECTION = 2072 ORDER CANCELLATION CONFIRMATION = 2075
OEDestination	bigint	Exchange ID	For details Refer to Appendix section 1.1
SessionKey	varchar(62)	Unique key for identify user session	2007100101-04204209206155210210
Thick Client	char(1)	Thick client	Y

1.1.70 Delete Selected Limit, Market & Stop-loss Order Reply

Message Name	**DeleteOrder**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **Delete only selected order** a **Limit, Market order or Stop loss order** request. The reply message the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum number of records	2		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	int	Successful=0 Failed=1	0
Record1:Field2	Error Details	varchar	If Field1=1 then Error details Otherwise Number of order deleted	1
Record2	blank	blank	blank	blank

1.1.71 Delete Selected Limit, Market & Stop-loss Order Request - TCP

Message Name	**DeleteOrder**
Type of Message	TCP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **Delete only selected** a **Limit, Market order or Stop loss order.**

Field Name	Type	Description	Values, meanings, Validations
MessageHeader	varchar	Message Header This is Fix Length Structure and details of the position are explained below in Message Header part.	Orders 2070 10 00 000 0 0
ID	bigint	Blank	
TimeStamp	bigint	This field set to zero while sending messages to the host end. For messages coming from the host, this contains the time the message was generated by the trading system.	0
LogTime	bigint	This field should be set to numeric zero while sending to the host. This is used in host end.	0
AlphaChar	char(2)	blank	
TransactionCode	bigint	Transaction Code Order cancellation Request = 2070	2070
ErrorCode	bigint	This Field set to zero while sending messages to the host. For messages coming from the host, this describes the type of error.	0
TimeStamp1	bigint	The time the message arrives at the trading system host. This Field set to numeric zero while sending to host.	0
TimeStamp2	bigint	This field set to numeric zero while sending to the host.	0

UsId	bigint	The Internal ID for whom order to be place.	0
ParticipantType	varchar(20)	PartIcipant Type	BSE Derivative & Currency= S BSE All & other markets =Blank
SubmitStatus	bigint	Request from TPS to exchange=1 Response from exchange to TPS system=2	1
OrderNumber	bigint	This field must be sent as blank or zero for the order entry request.	0
BookType	bigint	Order Type Limit/Market =1 Stop Loss=3 OCO = 8	0
setBuySellIndicator	bigint	Whether the order is a buy or sell Buy order=1 Sell order=2	0
Volume	bigint	This field contain the order quantity.	0
VolumeRemaining	bigint	The total quantity remaining from the original quantity after trade(s). For order entry, this field should be set to Volume. For every response, OMS will return this value.	0
DisclosedVolume	bigint	The quantity that has to be disclosed to the market. It is not applicable if the order has Immediate Or Cancel attribute set. It should not be greater than the volume of the order and not less than the Minimum quantity as specified by Exchange	0
DisclosedVolumeRemaining	bigint	This is the disclosed volume remaining from the original disclosed volume after trade(s).	0
MinimumVolume	bigint	NA	
VolumeFilledToday	bigint	The total quantity traded in a day. It should be set to = 0(zero) while sending order entry request to the host.	0
setPrice	bigint	Price at which order is placed.	0
TriggerPrice	bigint	This field is applicable only for a Stop Loss order and should be a multiple of the tick size. This field should contain the price at which the order is to be triggered and brought to the market. For a Stop Loss buy order, the trigger price will be less than or equal to the limit price but greater than the last traded price. For a Stop Loss sell	0

		order, the trigger price will be greater than or equal to the limit price but less than the last traded price.	
Flags	bigint	NA	0
Broker	bigint	Broker	0
TraderId	bigint	Trader ID	0
BranchId	bigint	NA	0
Remarks	bigint	Remarks	100000808
EntryDateTime	bigint	This field contains the date and time when the order entered the trading system. This is available in Order Confirmation/ Order Modification Confirmation response This field, while coming from the host, contains the date and time when the order entered the trading system. **This field should be set to zero while placing new order.**	0
LastModifiedDateTime	bigint	This contains time of last activity done on that order. Last activity could be order entry, order modification or last trade time of that order. While sending Order this should be set to 0.	0
UsLoginId	varchar(30)	The user ID/client ID for whom order to be place.	
CompetitorPeriod	bigint	The default competitor period for auction. This field will be set to zero.	0
SolicitorPeriod	bigint	NA	0
ModifiedCancelledBy	char(1)	This field denote who has modified or cancelled a particular order. During order entry, this field should be blank and applicable only for NSE segments. Trader=T	T
ReasonCode	bigint	During order entry, this field should be set to zero.	0
AuctionNumber	bigint	Auction number	0
CounterPartyBroker	varchar(20)	The Counter Party Broker code for the Negotiated Trade Order. This field is valid only for Negotiated Trade Orders. For other books, this field should be set to blank.	Blank
SuspendedSecurity	char(1)	Security is suspended.	Blank
GoodTillDate	bigint	This field contains the number of days	BSE Equity

(Retention Type)		for a GTD order. GTD Order is a conditional request made to the broker (or the system) to keep the order in system till a predetermined date, unless it is executed or cancelled. Generally the order is valid for a day. If this field is non-zero, the GTC flag must be off. For MCX expiry date format = (in seconds from January 1, 1970) For NCDEX expiry date format = (in seconds from January 1, 1980)	EOTODY= 2 BSE Equity EOSESS= 1 All other markets= Blank
Settlor	varchar(14)	The ID of the participants who are responsible for settling the trades through the custodians. By default, all orders are treated as broker's own orders and this field defaults to the Broker Code	0 or Participant Id
ProClientIndicator	bigint	Whether the order is entered on behalf of the broker (Pro Order) or a client. Client order= 1 Pro(broker) order= 2	1
SettlementPeriod	bigint	This field need to set to 0	0
CaLevel	bigint	This field should contain the Corporate Action Level Applicable for BSE. OWN= 20 CLIENT= 30 SPLCLI= 40 INST= 90	e.g. 30
OpenClose	char(1)	NA	Blank
CoverUnCover	char(1)	NA	Blank
GiveUpFlag	char(1)	NA	Blank
Purpose	bigint	NA	0
AdminUsId	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	9
Reason	varchar(1000)	Blank	
Status	bigint	NA	0
ExpectedApproverId	bigint	NA	0
ActualApproverId	bigint	NA	
ApproverRemarks	varchar(300)	blank	0
OldVolume	bigint	NA	0
OldPrice	bigint	NA	0

CreatedBy	bigint	Users Internal ID who has placed the order.	0
CreatedAt	datetime(8)	NA	
UpdatedBy	bigint	NA	
UpdatedAt	datetime(8)	NA	
Field1	bigint	Order Type Limit/Market =1 Stop Loss=3 OCO = 8	1
Field2	bigint	Filler	Filler
Field3	bigint	Internal Product Type for Cash and Carry (carry forward) or Intraday/delivery	blank
Field4	bigint	Order ID	100000810
RowState	bigint	Rowstate	0
IOC	bigint	An immediate or cancel order (IOC) IOC=1 Otherwise = 0	
AuctionId	bigint	blank	
BlockDeal	bigint	Flag to identify order is Block deal. Block deal orders=Y All other orders=N	
Retention Type	bigint	Retention type	E.g. GFD BSE & NSE Equity= 0 NSE All markets= DAY or IOC BSE Currency=GFD or IOC BSE All other markets=GFD MCX=GTD,GTC, EOSESS,IOC & GTDate NCDEX=DAY,GTC,IOC & GTDate
Price	bigint	Order Price	
SessionKey	varchar(62)	Session Key to be sent in Order request which is received in Login Response.	1552101419-03108113059110114114

Detail Description of Message Header

HeaderLength=201, HeaderColumns=21.
This message is fixed length Structure, blank should be sent in request if no values.

HeaderLength(Position)= HeaderColumns	Field(Header) Name	Type	Description	Values, meanings, Validations
0=10	Message ID	bigint	ID, NA	Blank
1=30	Table Name	varchar(30)	Table name	Orders
2=10	Transaction Code	bigint	Transaction Code. Order cancellation request.	2070
3=1	Direction	bigint	Request from TPS to exchange=1 Response from exchange to TPS system=2	1
4=10	Internal Token	bigint	This field contains the token number of the Contract. This is internal token number received in Scrip/Contract Master	0
5=30	ISIN Number	bigint	ISIN number of Security	
6=10	Instrument Name	varchar(50)	Instrument Name	e.g. HOUSING DEHDFC BSE Equity= Company name All other Market = Instrument name
7=20	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	HDFC
8=2	Series	Char(2)	Unique Series Id	Equity= EQ/BE Repo= Security Type All other markets= NA
9=10	Expiry Date	bigint	This date is the actual last trading date of the Product.	Equity contract= NA All other Market= Contract expiry date
10=20	Strike Price	bigint	Strike price of	BSE & NSE Equity

			option contract. Equity & Futures = blank Repo= Repo Tenor All other option Contract = Strike price *100 Currency Option Contract =Strike Price * 10000	= Blank All other markets Future Contracts= -1 Repo= Repo Tenor All other option Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
11=10	Option Type	char(2)	This field contains the option type. CALL= CE PUT = PE	BSE & NSE Equity=Blank BSE other markets=Blank NSE & All other markets = XX This field contains the option type. Option Contract = CE/PE
12=1	Message Type	bigint	blank	
13=1	Market	bigint	Market ID	e.g. 0 For details Refer to Appendix section 1.1
14=3	Segment	bigint	Unique numeric Identifier for Segment.	e.g. 0 For details Refer to Appendix section 1.1
15=1	Source	bigint	Exchange ID	e.g. 0 For details Refer to Appendix section 1.1
16=1	Destination	bigint	Destination Exchange	e.g. 0 For details Refer to Appendix se
17=10	NSE Token	bigint	NSE Exchange Instrument ID/Token	BSE Equity = -1 All other Markets = Exchange Instrument ID
18=10	BSE Token	bigint	BSE Exchange Instrument	BSE Equity = Exchange

			ID/Token	Instrument ID All other Markets= 0
19=10	Origin Time	bigint	Origin Time	0
20=1	Purpose	bigint	Purpose	

1.1.72 Delete Selected Limit, Market & Stop-loss Order Reply - TCP

Message Name	**DeleteOrder**
Type of Message	TCP Response
Description	This is the reply message sent in response to **Delete only selected order** a **Limit, Market order or Stop loss order** request. The reply message the status of the transaction after it was processed (i.e. **success or failure**).

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Message Type	bigint	Message ID	75
2	Transaction Code	bigint	The transaction message number. This describes the type of message received. Order Cancellation rejection = 2072 Order Cancellation Confirmation = 2075	2075
3	ID	bigint	Unique internal ID	100000618
4	Exchange	bigint	Exchange ID.	For details Refer to Appendix section 1.1
5	Market	bigint	Market ID.	For details Refer to Appendix section 1.1
6	Token	bigint	The token number of the Contract. This is internal token number received in Scrip/Contract Master.	e.g. 5
7	LogTime	bigint	This field set to zero while sending messages to the host. For messages coming from the host, this contains the time (In seconds) when the message was generated by the trading system host.	e.g. 1542356712
8	ErrorCode	bigint	Error code for order response. Successful – 0	e.g. 0

			otherwise error code	
9	OrderNumber	bigint	Exchange order number	Eg. 1542348016946000000 Order rejection=0 Otherwise Exchange order number.
10	BookType	bigint	Type of order. Limit=1 Stoploss=3 OCO=8	1
11	Volume	bigint	Order quantity.	e.g. 1
12	VolumeRemaining	bigint	The total quantity remaining from the original quantity after trade(s). For order entry, this field should be set to Volume. For every response, the trading system will return this value.	e.g. 1
13	DisclosedVolume	bigint	Disclosed Volume sent in Order Request.	0
14	DisclosedVolumeRemaining	bigint	This is the disclosed volume remaining from the original disclosed volume after trade(s).	0
15	VolumeFilledToday	bigint	The total quantity traded in a day. It should be set to = 0(zero) while sending order entry request to the host.	0
16	Price	bigint	Price	169755
17	TriggerPrice	bigint	Trigger price sent in order request.	
18	Flags	bigint	N.A.	e.g. 0
19	Broker	bigint	Trading member ID.	e.g. 9065
20	TraderId	bigint	Trader ID	e.g. 906510003
21	BranchId	bigint	NA	
22	Remarks	bigint	The Internal Order number/ remarks. This will be generated by OMS system.	e.g. 100000357
23	EntryDateTime	bigint	The date and time (seconds) when the order entered the trading system. This is available in Order Confirmation/ Order	Equity= -19800 All other markets= 1536232534

			Modification Confirmation response This field, while coming from the host, contains the date and time when the order entered the trading system. This field should be set to zero while sending to the host.	
24	LastModifiedDateTime	bigint	This contains time in milliseconds of last activity done on that order. Last activity could be order entry, order modification or last trade time of that order.	e.g. 1542356712
25	ParticipantType	varchar(10)	ParticipantType	Blank
26	ModifiedCancelledBy	bigint	NA	NA
27	ReasonCode	bigint	NA	e.g. 0
28	GoodTillDate	bigint	Date sent in Order request. This is applicable only for MCX & NCDEX.	BSE Equity & Commodity= Blank
29	ProClientIndicator	bigint	Whether the order is entered on behalf of the broker or a trader. Client order=1 Pro(broker) order=2	1
30	AdminUsId	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	9
31	USBackOfficeID	varchar(30)	The user ID/client ID who has logged in.	Dealer1-T9065
32	Reason	bigint	Order status message.	1 Qty Deleted Successfully
33	Status	bigint	NA	e.g. 0
34	ExpectedApproverId	bigint	NA	
35	ExpectedApprover BackOfficeID	bigint	NA	BSE Derivative,SLB,NSE Equity = SYSTEM All other markets = Blank
36	ActualApproverId	bigint	NA	
37	ActualApprover BackOfficeID	Filler	NA	Blank

38	ApproverRemarks	varchar(50)	Blank	Blank
39	OldVolume	bigint	NA	e.g. 0
40	OldPrice	bigint	NA	e.g. 0
41	ErrorMessage	bigint	Blank	Blank
42	CreatedBy	bigint	Contract created Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	9
43	BackOfficeID	varchar(30)	The user ID/client ID who has logged in.	Dealer1-T9065
44	CreatedAt	datetime(8)	Order Entry time.	16-11-2018 13:55:12:848
45	LastUpdatedBy	bigint	User ID who has last modified th order.	Blank
46	Filler	Filler	Filler	Blank
47	LastUpdatedAt	datetime(8)	Contract last updated time.	Blank
48	Field1(CA Value)	bigint	CA Value for BSE	
49	Field2	bigint	Filler	Filler
50	Field3	varchar(5)	Product Type Cash and Carry (carry forward) or Intraday.	CNC=Y Intraday=N
51	Field4	varchar(50)	The Location Id of the end-user who is placing the orders should be registered with the Exchange. The location id consists of 16 digits and break-up of this Location Id is given below: 6 digits: Pin Code 4 digits: Branch Id 3 digits: User id 1 digit: Program Trading Possible Values 0 – No Program Trading 1 – Program Trading Allowed 2 – DMA Allowed but No Program Trading 3 – DMA Allowed with Program Trading 4 – SOR 5 – Handheld Device 6 – SOR with DMA 7 – SOR with DMA with Program Trading	e.g. 1111111111111010 It is Different from Exchange to exchange

			2 digits: Vendor Code as as assigned by the exchange.	
52	RowState	bigint	RowState	Blank
53	UsId	bigint	This field contain the Internal ID for whom order to be place.	e.g. 9
54	BackOfficeID	varchar(30)	This field contain the user internal user login ID/client login ID for whom order to be place.	Client1-T9065
55	InstrumentType	varchar(10)	This field contains the type of the instrument.	EQUITY= blank REPO= Repo Type All other Markets = Instrument Type like FUTSTK
56	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. GOLD
57	Series	char(2)	Series ID for security.	Equity= EQ/BE Repo= Security Type All other markets= NA
58	ExpiryDate	bigint	This date is the actual last trading date of the Product. DD-MMM-YY FORMAT	e.g. 20-Jun-19 Equity contract= NA All other Market= Contract Expiry Date
59	StrikePrice	bigint	Strike price of option contract.	Equity & Futures = blank Repo= Repo Tenor All other option Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
60	OptionType	char(2)	This field contains the option type. CALL= CE PUT= PE	Equity & Futures= blank Repo= Settlement Type Option Contract = CE/PE
61	BuySellIndicator	bigint	Whether the order is a buy or sell	Buy order=1 Sell order=2
62	Remarks	bigint	This field contains the remarks.	e.g. 100000614
63	AuctionNumber	bigint	The auction number. The maximum value this can take is 9999. Other than	e.g. 0

			auction it is set to zero.	
64	Settlor	varchar(14)	This field will receive the ID of the participants who are responsible for settling the trades through the custodians. By default, all orders are treated as broker's own orders and this field defaults to the Broker Code	e.g. 9065
65	Value	bigint	Total Value	e.g. 1697.50
66	GFD/GTC/DAY/EOSS /GTC Retention Type	varchar(20)	Retention Type GTD only applicable for MCX and NCDEX market For MCX expiry date format = (in seconds from January 1, 1970) For NCDEX expiry date format = (in seconds from January 1, 1980)	BSE Commodity,Repo and Currency= GFD BSE ITP = EOSS NSE all market= blank NCDEX=GTD,GTC and Day MCX= GTD,GTC,DAY and GFD All other markets= Blank
67	GFD/GTC/DAY/EOSS /GTC Retention Type	varchar(20)	Retention Type GTD only applicable for MCX and NCDEX market For MCX expiry date format = (in seconds from January 1, 1970) For NCDEX expiry date format = (in seconds from January 1, 1980)	BSE Equity= EOSESS or EOTODY NSE Equity= EOSESS MCX and NCDEX= EOSESS All other Markets= GFD
68	LogTime	char(10)	The time when the message was generated by the trading system host	e.g. 13:55:12
69	LogTime	char(10)	The time when the message was generated by the trading system host	e.g. 13:55:12
70	LastModifiedDateTim	bigint	This will contain time of	e.g. 13:55:12

	e		last activity done on that order. Last activity could be order entry, order modification or last trade time of that order.	
71	IntraDay/CNC	varchar(5)	Internal Product Type for Cash and Carry (carry forward) or Intraday.	CNC=Y Intraday=N
72	Market	bigint	Market ID	e.g. 3 For details Refer to Appendix section 1.1
73	CounterPartyBroker	varchar(20)	This field specifies the Counter Party Broker code for the Negotiated Trade Order. This field is valid only for Negotiated Trade Orders. For other books, this field should be set to blank.	BSE Commodity, Currency and Repo=0 All other markets =Blank
74	Calevel	bigint	This field should contain the Corporate Action Level. OWN= 20 CLIENT= 30 SPLCLI= 40 INST= 90	CLIENT
75	Total wt	bigint	Total wt	BSE/MCX/NSE Commodity=Board Lot All other market= blank
76	TradingUnit	bigint	Trading unit	BSE/MCX/NSE Commodity=Trading Unit All other market= blank
77	VolumeRemaining	bigint	This field specifies the total quantity remaining from the original quantity after trade(s). For order entry, this field should be set to Volume. For every response, the trading system will return this value.	BSECommodity=Board Lot All other market= blank
78	SettlementType	varchar(2)	T0 or T1 Only Applicable for REPO Market.	REPO= Repo Settlement type All other markets= blank
79	RepoTenure	bigint	Repo Tenor (In Days)	REPO= Repo tenure

				All other markets= blank
80	SecurityType	bigint	Security type CP/CD/CB	REPO=Repo Transferable All other markets= blank
81	TransferAble	bigint	Transferable=T Non Transferable security=NT	REPO= Repo Settlement type All other markets= blank
82	Volume	bigint	Repo order quantity.	Volume= REPO volume All other markets=blank
83	VolumeRemaining	bigint	The total quantity remaining from the original quantity after trade(s). For order entry, this field should be set to Volume. For every response, the trading system will return this value.	Only applicable for Repo Market.
84	Price		Repo Price	Applicable only for Repo All other markets = blank
85	BUY/SELL	varchar(10)	Buy sell indicator	BUY

1.1.73 Delete Selected Order Confirmation Message Reply - TCP

Message Name	**DeleteOrder**
Type of Message	TCP Response
Description	This is the reply message sent in response to **Delete order request**. The reply message contains the message order and the status of the transaction after it was processed (i.e. **success or failure**). This is **short message** which can be used for displaying on Message Board.

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Message order	bigint	Message ID	57
2	Source	bigint	Exchange ID.	For details Refer to Appendix section 1.1
3	Market	bigint	Market ID.	For details Refer to Appendix section 1.1

4	Message	bigint	Order status message	BSE: 16-11-2018 13:55:12:000 ORDER: 1542348016946002028 Buy 1 HDFC-EQ at 1697.55 FOR Client1-T9065 BY Dealer1-T9065 CANCELLATION CONFIRMED Reason: 1 Qty Deleted Successfully ~O
5	Filler	Filler	Filler	o
6	Filler	Filler	Filler	o
7	BuySellIndicator	bigint	This field should specify whether the order is a buy or sell. Buy order=1 Sell order=2	1
8	USID	bigint	This field should contain the user ID/client ID for whom order to be Deleted.	16377
9	Token	bigint	This field contains the token number of the Contract. This is internal token number received in Scrip/Contract Master	e.g. 5
10	Source	bigint	Exchange ID	For details Refer to Appendix section 1.1
11	Market	bigint	Market ID	For details Refer to Appendix section 1.1
13	OrderNumber	bigint	An Order Number assigned to the order. It is a unique identification for an order.	1542348016946002028
15	Transaction Code	bigint	This field should contain the transaction message number. This describes the type of message received. Order Cancellation rejection = 2072 Order Cancellation Confirmation = 2075	2075

1.1.74 Order List Request

Message Name	**ListOrder**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to see **list of all/selected Orders** in order book. Server in response will provide the list of pending orders available as per given filter criteria.

Field Name	Type	Description	Values, meanings, Validations
exchange	bigint	Exchange ID for which pending orders to be fetch. If required for all the exchanges record then Set “0”	e.g. 0 For details Refer to Appendix section 1.1
segment	bigint	Unique numeric Identifier for Product or “0” for all products.	e.g. 0 For details Refer to Appendix section 1.1
symbol	varchar(30)	Unique symbol / Asset Code defined for each asset. Symbol name for which record to be fetch. If required for all symbol record then set blank.	Blank
market	bigint	Market ID for which pending orders to be fetch. If required for all the markets record then Set “0”	e.g. 0 For details Refer to Appendix section 1.1
series	char(2)	Unique Series Id	Blank
instrumenttype	varchar(10)	Instrument type	EQUITY= Blank REPO= Repo Type All other Markets = Instrument Type
optiontype	char(2)	This field contains the option type. ALL option Type Set Blank CALL or PUT	Equity & Futures= Blank Repo = Settlement Type Option Type=Call/Put
user	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	e.g. 16377
account	varchar(30)	This field should contain the user ID/client ID for whom record to be fetch.	Client1-T9065
intraday	varchar(5)	Internal Product Type for Cash and Carry (carry forward) or Intraday. ALL=Blank Intraday=N CNC=Y	blank

buysellindicator	bigint	This field should specify whether the order is a buy or sell.	All=0 Buy=1 Sell=2
group	varchar(1)	group	e.g. Y
OEBookType	bigint	Order Type All= -1 normal= 1 RFQ= 4 Auction= 7	
aggregate	varchar(1)	Filler	e.g. N
OEStatus	bigint	Order Status Normal=2 After market=4 Batch order=5	5
token	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master. If required for all token records then Set “Blank”	8
expirydate	bigint	This date (in seconds) is the actual last trading date of the Product. If required for all Expiry records then Set “Blank”	e.g. 1227969000 Equity contract= Blank All other Market= Contract expiry date
ordernumber	bigint	Internal order number If required for all records then Set “Blank”	1539925246667000009
starttime	bigint	Start date/time for Query Orders	
endtime	bigint	End date/time for Query Orders	
strikeprice	bigint	Strike price of option contract.	Equity & Futures = blank Repo= Repo Tenor All other option Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
APIDefaultScreenField	varchar(1)	For fix column header= Y Otherwise parameter not required.	Y
SessionKey	varchar(62)	Unique key for identify user session	2007100101-0420420920615521021 0
Thick Client	char(1)	Thick client	Y

1.1.75 Order List Reply

Message Name	ListOrder
Type of Message	HTTP Response
Description	This is the reply message sent in response to **see list of all/selected orders** request. The reply message contains the Order id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum number of records	6		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	Result of Request	varchar	Status of request and data summary details	0||2|34|1
Record2	Column Headers	varchar	Column Headers	OEID|Segment|Market|OEToken|Inst Type|CP Code|Custodian|Symbol|Expiry Dt|Strike Price|OEOptionType|Book|Qty|Total Wt.|Pending Wt.|Price|Value|Buy/Sell|Pending Qty|Intra/CNC|Internal Ref. No.|Ex. Order No|Trg Price|D Qty|Exch|Client Id|User/Admin|Entry Date Time|Use Retn|CAClass|Int. Remarks|Amt(in Lacs)|Pending Amt(in Lacs)|Repo Rate
Record3	Column Types*	varchar	Denotes default visibility, alignemnt, and data type of the data column	SLNO|SLAO|SLO|SLNO|SLAO|SLAO|SLAO|SLAO|SLDO|SLNO|SLAO|SLAO|SRNO|SRNO|SRNO|SRNO|SRNO|SLO|SRNO|SLAO|SLAO|SLAO|SRNO|SRNO|SLAO|SLAO|SLAO|SLDO|SLAO|SLAO|SLAO|SRNO|SRNO|SRNO
Record4	Column Widths	int	Width of the data column	22|40|40|0|40|0|0|130|100|70|30|40|65|65|65|90|90|65|80|75|0|170|80|80|40|80|60|100|40|50|0|80|80|80
Record5	Column Positions	int	Position of the data column	102|107|107|110|112|112|112|113|115|116|117|131|133|133|133|134|134|135|136|137|138|138|139|140|141|142|143|146|157|174|175|176|177|178
Record6	Column Data	varchar	Data as per order	100000082|Equity|Equity|1||||ABB||||Normal|1|||1488.0000|1488.0|Buy|1|Intra|100000081|1581311382690000099|0.0000|0|BSE|YUVRAJP-T9072|T9072|14:37:16|EOTODY|CLIENT|100000081|0|0|0.0000
Last Record	Total Order Summary			

Detail Description of Record 1: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of Request	int	Successful=0 Failed=1	0
2	Error Details message	Varchar	If field= 1 then error message otherwise blank	
3	Number of records with data & summary	blank	Number of orders/records with summary	2
4	Number of Columns data	int	Number of columns	34
5	Number of records	int	Number of records	1

Detail Description of Record 2: Column Headers

Field No	Field Name	Type	Description	Values, meanings, Validations
1	ODID	bigint	Internal order ID	e.g. 100000134
2	Segment	varchar(30)	Unique numeric Identifier for Segment name EQUITY/Futures/Options/Commodity Future/Commodity Option	Equity
3	Market	varchar(20)	Market name	For details Refer to Appendix section 1.1
4	OEToken	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master.	1
5	Inst Type	varchar(10)	Instrument type	e.g. FUTCUR EQUITY= blank REPO= Repo Type All other Markets = Instrument Type
6	CP Code	varchar(10)	Custodial Participant (CP) Code provided at the time of order entry or 'Blank' in case of no CP code.	e.g. 0 Equity=Blank
7	Custodian	varchar(20)	Clearing Member	e.g. 0 Equity=Blank
8	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	ACC,ABB,GOLD,EUINR etc.
9	Expiry Dt	bigint	This date is the actual last trading date of the Product. If required for all Expiry date records then set blank.	Equity contract= NA All other Market= Contract expiry date
10	Strike Price	bigint	Strike price of option contract. Blank for Futures. If required for	Equity & Futures contract= blank

			all record then set blank.	Repo= Repo Tenor Currency Option Contract= Strike Price * 10000 For other Option Contract= Strike Price * 100
11	OEOptionType	char(2)	This field contains the option type. CALL= CE PUT = PE	BSE Equity & Future=Blank Repo = Settlement Type Option Contract = CE/PE
12	Book	varchar(20)	Order Type All= -1 normal= 1 RFQ= 4 Auction= 7 Stop Loss=SL	Normal
13	Qty	bigit	Total order quantity/Lot	e.g. 10
14	Total Wt.	bigit	Total Weight. Qty * Market Lot.	Applicable for MCX/BSE/NSE Commodities.
15	Pending Wt.	bigit	Pending Weight	Applicable for MCX/BSE/NSE Commodities.
16	Price	bigit	Price entered in Order.	1488
17	Value	bigit	Order Value.	1488
18	Buy/Sell	varchar(5)	Buy or Sell.	Buy
19	Pending Qty	bigit	Pending order quantity/Lot.	e.g. 2
20	Intra/CNC	varchar(10)	Internal Product Type for Cash and Carry (carry forward) or Intraday. CNC or Intra	Intra
21	Internal Ref. No.	bigint	Internal refrence number assigned by OMS.	100000132
22	Ex. Order No	bigint	Exchange Order Number.	1581311382690000099
23	Trg Price	bigint	Trigger Price specified for stoploss/OCO type of order.	
24	D Qty	bigint	This term allows the dealer to disclose only a portion of the order quantity to the market.	e.g. 0
25	Exch	varchar(10)	Exchange name	For details Refer to Appendix section 1.1
26	Client Id	varchar(30)	This field contain the user	Client1-t9065

			ID/client ID for whom order to be place.	
27	User/Admin	varchar(30)	User ID of the Admin/broker. Internal Login ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	T9072
28	Entry Date Time	datetime(8)	Entry date time	14:37:16
29	Use Retn	varchar	Retention Type	EOTODY
30	CAClass	varchar	CA class	Client
31	Int. Remarks	bigint	Internal Remarks	100000081
32	Amt(in Lacs)	bigint	Amount (In lacs)	0
33	Pending Amt(in Lacs)	bigint	Pending amounts	0
34	Repo Rate	bigint	Repo Rate	0

1.1.76 Trade List Request

Message Name	**ListTrade**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **know list of traded security.**

Field Name	Type	Description	Values, meanings, Validations
exchange	bigint	Exchange ID for which trades to be fetch. If required for all the exchanges record then Set “0”	e.g. 0 For details Refer to Appendix section 1.1
segment	bigint	Unique numeric Identifier for Product or “0” for all products.	e.g. 0 For details Refer to Appendix section 1.1
symbol	varchar(30)	Unique symbol / Asset Code defined for each asset. Symbol name for which record to be fetch. If required for all symbol record then set blank.	Blank or symbol name ACC,ALS,GOLD,EUINR etc.
market	bigint	Market ID for which pending orders to be fetch. If required for all the Markets record then Set “0”	e.g. 0 For details Refer to Appendix section 1.1
series	char(2)	Unique numeric Identifier for Product or “0” for all products.	e.g. 0 For details Refer to Appendix section 1.1
instrumenttype	varchar(10)	Instrument Type Instrument name for which record to	Blank or symbol name

		be fetch. If required for all Instrument record then set blank.	ACC,ALS,GOLD,EU INR etc.
optiontype	char(2)	This field contains the option type. For ALL option type set Blank Otherwise "CALL" or "PUT" .	Equity & Futures= Blank Repo = Settlement Type Option Type=Call/Put
user	varchar(30)	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	9
account	bigint	This field should contain the user ID/client ID from trade took place.	Client1-t9065
intraday	varchar(10)	Internal Product Type for Cash and Carry (carry forward) or Intraday.	All= blank Intraday=N CNC=Y
buysellIndicator	bigint	This field should specify whether the order is a buy or sell.	All= 0 Buy=1 Sell=2
group	varchar	group	Y
TRBookType	bigint	order status All= -1 Normal= 1 Auction= 7	-1
aggregate	varchar	Filler	N
token	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master.	e.g. 135193
expirydate	bigint	This date is the actual last trading date of the Product. If required for all Expiry date records then set blank.	Equity contract= NA All other Market= Contract expiry date
ordernumber	bigint	Order unique number If required for all record then set blank.	1000000000218439
TRNumber	bigint	Trade unique number	Blank
TradeTime		Traded Time If required for all record then set blank.	19:07:01
ToTradeTime	bigint	This field contains the time when the trade took place in a security. If required for all record then set blank.	19:07:01
strikeprice	bigint	Strike price of option contract. Blank for Futures. If required for all record then set blank.	Equity & Futures contract= blank Repo= Repo Tenor Currency Option

			Contract= Strike Price * 10000 For other Option Contract= Strike Price * 100
MAXID	bigint	MAXID	0
APIDefaultScreenField	varchar(1)	For fix column header= Y Otherwise parameter not required.	Y
SessionKey	varchar(62)	Unique key for identify user session	2007100101-0420420920615521 0210
Thick Client	char(1)	Thick client	Y

1.1.77 Trade List Reply

Message Name	**ListTrade**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **know list of traded security request**. The reply message contains the Trade id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum number of records**	**6**		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	Status of request	varchar	Status of request and data details	0||13|30|12
Record2	Column Headers	varchar	Blank	TRID|Symbol|Qty|Price|Value|Buy/Sell|Intra/CNC|Market |Remarks|Ord. No|Internal Ref. No.|Trd No.|Exch|ClientId|User/Admin |Time|N Token|Token|LogTime|Strike Price|Option Type|Inst Type|Segment|Expiry Dt|UserRemarks|Total Wt.|MarketLot|Unique Identifier|Amt(in Lacs)|Repo Rate
Record3	Column Types*	varchar	Denotes default visibility, alignemnt, and data type of the data column	SLN|SLAO|SLN|SRNO|SRNO|SLA|SLAO|SLAO|SLAO |SLA|SLAO|SLA|SLAO|SLA |SLAO|SLDO|SLN|SLN|SLDO|SLN|SLA|SLAO|SLAO|SLD|SLAO|SRNO|SLA|SLAO|

				SRNO|SRNO
Record4	Column Widths	int	Width of the data column	16|130|60|75|75|60|75|80|0|170|60|85|60|140|60|80|0|0|60|80|80|80|60|100|100|65|0|0|80|80
Record5	Column Positions	int	Position of the data column	1|2|3|4|5|6|7|7|8|10|11|12|13|14|15|16|17|18|23|24|25|27|28|29|30|133|176|177|179|180
Record6	Column Data	varchar	Data as per Column header	100000012|ABB|1|1493.0000|1493.00|Buy|Intra|Equity|100000078|1581311382690000098|100000012|12300|BSE|YUVRAJP-T9072|T9072|14:36:59|-1|1|14:36:59||||Equity||||1|12300^1^1^1^1|0|0.0000
Last Record	Total trade Summary	varchar	blank	||411||851510.9500|||||||||||||||||||0.00||||

Detail Description of Record 1: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of request	int	Successful=0 Failed=1	0
2	Erorr details	blank	If Field1= 1 then Error message otherwise blank	Blank
3	Number of records with data & summary	varchar	Number of records with data & summary	13
4	Number of Columns data	varchar	Number of Columns data	30
5	Number of records	varchar	Number of records	12

Detail Description of Record 2: Column Header

Field No	Field Name	Type	Description	Values, meanings, Validations
1	TRID	bigint	Unique trade id	100000012
2	Symbol	varchar(30)	Unique symbol defined for each asset.	for eg: ACC ,ABB,GOLD,EUINR
3	Qty	bigint	The Trade Quantity.	1
4	Price	bigint	Traded Price of security/Contract.	1493
5	Value	bigint	Trade total value	1493
6	Buy/Sell	bigint	Whether the order is a buy or sell order	Buy
7	Intra/CNC	varchar(10)	Internal Product Type for Cash and Carry (carry forward) or Intraday.	CNC

			CNC or Intra	
8	Market	bigint	Market Name	For details Refer to Appendix section 1.1
9	Remarks	bigint	Remarks	100000078
10	Ord. No	bigint	Order number	1581311382690000000
11	Internal Ref. No.	bigint	Internal reference number	100000012
12	Trd No.	bigint	Unique Trade number	12300
13	Exch	varchar(10)	Exchange name	For details Refer to Appendix section 1.1
14	ClientId	varchar(30)	The user ID/client ID for whom order to be place.	Client1-T9065
15	User/Admin	varchar(30)	The user ID/client ID who has logged in.	T9072
16	Time	bigint	The last trade time of a security/Contract.	14:36:59
17	N Token	bigint	Exchange Instrument ID	BSE EQUITY= -1 All other market exchange instrument ID
18	Token	bigint	The token number of the Contract.This is internal token number received in Scrip/Contract Master	7
19	LogTime	datetime(8)	Log time	14:36:59
20	Strike Price	bigint	Strike price of option contract.	Equity & Futures = blank Repo= Repo Tenor All other option Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
21	Option Type	char(2)	This field contains the option type. CALL= CE PUT = PE	Equity & Futures= blank Repo = Settlement Type Option Contract = CE/PE
22	Inst Type	varchar(10)	This field contains the type of the instrument.	Equity= Blank REPO= Repo Type All other Markets = Instrument Type
23	Segment	varchar(30)	Unique numeric Identifier for Product EQUITY/Futures/Options/ Commodity Future/Commodity Option	Equity
24	Expiry Dt	bigint	This date is the actual last trading date of the Product. DD-MMM-YY	Equity contract= NA All other Market= Contract expiry date
25	UserRemarks	bigint	Blank	Blank
26	Total Wt.	bigint	Total Wt	1

27	MarketLot	bigint	Market lot	1000
28	Unique Identifier		Unique Indenfier for security/Contract.	12300^1^1^1^1
29	Amt(in Lacs)	bigint	Repo Quantity	BSE Repo= Repo Quantity All other markets=0
30	Repo Rate	bigint	Repo price	BSE Repo= Repo price All other markets=0

1.1.78 Trade Confirmation – TCP

Message Name	**Trade Confirmation**
Type of Message	TCP Response
Description	This message is sent when Trade Confirmation occurs from respective exchange and this is unsolicited type of message.

Field No	Field Name	Type	Description	Values, meanings, Validations
1	**Message Type**	**bigint**	**Message Type**	**76**
2	Transaction Code	bigint	The transaction message number. This describes the type of message sent or received.	Trade Confirmation = 2222 Spread Trade Confirmation = 1649 On Stop Notification = 2212
3	ID	bigint	Unique internal ID	100000106
4	Exchange	bigint	Exchange ID	For details Refer to Appendix section 1.1
5	Market	bigint	Market ID	For details Refer to Appendix section 1.1
6	Token	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master.	3112
7	LogTime	bigint	The time in seconds when the message was generated by the trading system.	e.g. 1540298644
8	ErrorCode	bigint	Error code for order response. Successful = 0 otherwise error code	0
9	Number	bigint	Trade number	e.g. 4200

10	Volume	bigint	The trade quantity.	12
11	Price	bigint	Traded Price of security/Contract.	800000
12	OrderNumber	bigint	Exchange order number	1540272937405000000
13	RemainingVolume	bigint	The total quantity remaining from the original quantity after trade(s). For order entry, this field should be set to Volume. For every response, the trading system will return this value.	5
14	DisclosedVolumeRemaining	bigint	The quantity that has to be disclosed to the market. It is not applicable if the order has either the All Or None or the Immediate Or Cancel attribute set	0
15	VolumeFilledToday	bigint	This field specifies the total quantity traded in a day.	1
16	TradeTime	bigint	The time in seconds when the trade took place in a security/Contract.	e.g. 1533210558
17	AdminUsId	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	9
18	BackOfficeId	varchar(30)	The user ID/client ID who has logged in.	Dealer1-T9065
19	CreatedBy	bigint	Internal ID of the User who has whom order to be place. This ID will be provided by BOW Server in Logon response.	100000291
20	BackOfficeId	varchar(30)	The user ID/client ID for whom order to be place.	Client1-t9065
21	Trade received time	bigint	Trade received Local database time	02-08-2018 17:19:19:006
22	LastUpdatedBy	bigint	Users Internal ID who has last modified the trade like intraday to CNC & vice versa	0
23	filler	varchar(30)	NA	NA
24	Last Update Time	bigint	Last updated time	Blank
25	Filler	bigint	Filler	NA
26	Field2	bigint	Filler	Filler
27	Order Type	bigint	This field will contain the type of order. Limit,Market=1 StopLoss=3 OCO=8	1
28	Product Type & Order Id	varchar(25)	Internal Product Type for Cash and Carry (carry forward) or Intraday. CNC= Y	Y^100013812

			IntraDay= N Appended with original Request internal Order ID.	
29	Filler	bigint	Filler	NA
30	Filler	bigint	Filler	NA
31	Filler	bigint	Filler	NA
32	OldBackOfficeId	varchar(30)	Internal ID of the User who has whom order to be place. This ID will be provided by BOW Server in Logon response.	100000291
33	BackOfficeId	varchar(30)	The user ID/client ID for whom order to be place.	Client1-T9065
34	ParticipantCode	bigint	ID of the participants who are responsible for settling the trades through the custodians.	Blank
35	Filler	bigint	NA	NA
36	InstrumentType	bigint	The type of the instrument.	EQUITY= blank REPO= Repo Type All other Markets = Instrument Type like FUTSTK as per master.
37	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. GOLD
38	Series	varchar(2)	Series ID for security.	Equity= EQ/BE Repo= Security Type All other markets= blank
39	ExpiryDate	bigint	This date is the actual last trading date of the Product. DD-MMM-YY format	29-Aug-18 Equity contract= NA All other Market= Contract Expiry Date
40	StrikePrice	bigint	Strike price of option contract.	Equity = blank Repo= Repo Tenor All other option Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
41	OptionType	bigint	This field contains the option type.	Equity & Futures=

			CALL= CE PUT= PE	blank Repo= Settlement Type Option Contract = CE/PE
42	BuySellIndicator	bigint	Whether the orders is a buy or sell Buy order=1 Sell order=2	2
43	IntraDay/CNC	varchar(500)	Internal Product Type for Cash and Carry (carry forward) or Intraday. CNC=Y Intraday=N	Y
44	Price	bigint	The price at which the trade took place.	80000
45	Boardlot	bigint	BoardLot	1000
46	TradeTime	bigint	The time when the trade took place in a security/Contract.	17:19:18
47	LogTime	bigint	NA	NA
48	BrokerId	bigint	The trading member ID.	9065
49	TraderId	bigint	This field contain the user ID of the user.	906501001
50	Total wt	bigint	Total wt	BSE/MCX Commodity =Total wt All other market= blank
51	TradingUnit	bigint	Trading unit	BSE/MCX Commodity=Trading Unit All other market= blank
52	VolumeRemaining	bigint	The total quantity remaining from the original quantity after trade(s).	BSE/MCX Commodity=BoardLot All other market= blank
53	RepoSettlementType	varchar(2)	Repo Settlement type Applicable only for Repo	T0 or T1 BSE Repo= SettlementType All other markets=blank
54	RepoTenure	bigint	Repo Tenor (In Days) Applicable only for Repo	e.g. 4 BSE Repo= RepoTenure All other

				markets=blank
55	RepoSecurityType	bigint	Security type Applicable only for Repo	CB or CD or CP BSE Repo= SecurityType All other markets=blank
56	Transferable	bigint	T- Transferable /NT- Non Transferable security Applicable only for Repo	T or NT BSE Repo= Transferable All other markets=blank
57	REPOVolume	bigint	The order quantity. Applicable only for Repo	Volume=REPO volume All other markets=blank
58	REPOVolumeRemaining	bigint	The total quantity remaining from the original quantity after trade(s). For order entry, this field should be set to Volume. For every response, the trading system will return this value. Applicable only for Repo	Volume=REPO VolumeRemaining All other markets=blank
59	REPORate		The Repo Rate at which the order is placed. Applicable only for Repo	Rate=REPO Rate For All other markets=blank
60	TRAdminRemarks	varchar(30)	Remarks field entered in Order Entry	
61	BUY/SELL	varchar(10)	Buy Sell indicator	BUY

1.1.79 Trade Confirmation Short Message - TCP

Message Name	**Trade Confirmation**
Type of Message	TCP Response
Description	This is unsolicited Trade confirmation short message which can be used for displaying the trade confirmation directly at Front End Terminal.

Field No	Field Name	Type	Description	Values, meanings, Validations
1	**Message order**	**bigint**	**Message order**	**57**
2	Source	bigint	Exchange name	For details Refer to Appendix section 1.1
3	Market	bigint	Market name	For details Refer to Appendix section 1.1
4	Message	bigint	Order status message	BSE: 05:19:18 PM Trade Confirmation Bought against 1533186014049002202

				FUTCUR 29Aug2018 EURINR 1 / 1 at 80.0000 FOR Client1-T9065 TRADE No. 17000~T
5	Blank	Blank	Blank	T
6	BuySellIndicator	bigint	This field should specify whether the order is a buy or sell.	Buy order=1 Sell order=2
7	User login ID	varchar(30)	This field should contain the user ID/client ID for whom order to be place.	Client1-T9065
8	Token	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master	3112
9	Source	bigint	Exchange ID	For details Refer to Appendix section 1.1
10	Market	bigint	Market ID	For details Refer to Appendix section 1.1
11	OrderNumber	bigint	Unique order number	1540272937405000048
12	Number	bigint	Trade number	4200
13	Filler	Filler	Filler	Filler

Broadcast Related Messages

1.1.80 Create New Market Watch PreAdd Request

Message Name	**PreAddArbitrageMarketWatch**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **create new market watch and request for available Columns.**

Field Name	Type	Description	Values, meanings, Validations
MWID	bigint	NA	0
MWUSID	varchar(30)	Login ID of the User/Client who has logged in.	Client1-T9065
SessionKey	varchar(62)	Unique key for identify user session	801376505-02251199
Thick Client	char(1)	Thick client	Y

1.1.81 Create New Market Watch PreAdd Reply

Message Name	**PreAddArbitrageMarketWatch**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **create new market watch** request. The reply message contains the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum Number of Records	71		
S.No	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	Status of Request	int	Status of request and data summary details	0||69|5
Record(2 to 69)	Column Data	varchar	Data as per market watch Column header	2295|5|Ntoken|1|0
Record71	Id	int	Number of legs	0||0|4

Detail description of Record 1: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of Request	int	Successful=0 Failed=1	0
2	Error Details	varchar	If Field1= 1 then error message otherwise blank	
3	Number of records(70 Records is fix)	int	Number of records Records	70

4	Number of Records with data and summary	varchar	Number of Records with data and summary	5

Detail Description of Record 2: Market Watch Column Data

Field Name	Type	Description	Values, meanings, Validations
ColumnId	int	Column ID	2295
ColumnPosition	int	Column Position	5
ColumnDisplayName	varchar	Column Display Name	Ntoken
TypeRemovableBit	int	Wheather column is mandatory or not. Mandatory=0 Optional=1	1
TypeDefaultBit	int	Default selected Field=1 Select Field=0	0

Detail Description of Record 71: Number of Legs

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Id	int	Blank	Blank
2	Name	varchar	Blank	Blank
3	Formula	varchar	Blank	0
4	NoOfLegs	int	NA	4

1.1.82 Create New Market Watch Request

Message Name	**AddArbitrageMarketWatch**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **create new market watch.**

Field Name	Type	Description	Values, meanings, Validations
MWUSID	int	Internal Login ID of the User who has logged in. This ID will be provided by BOW Server in Logon response	65
MWName	varchar	MarketWatch name	Market
MWSegmentId	int	Default value to be sent as 1	1
MWFormat	int	Default value to be sent as 3	3
MWNoOfLegs	int	Default value to be sent as 1	1
MWType	char	Default value to be sent as 1	1
MWAdmin	varchar	MarketWatch admin Default value to be sent as N	N
MWFIELD1	bigint	Filler	Blank
MWFIELD2	int	Filler	Blank
MWFIELD3	varchar	Filler	Blank
MWFIELD4	varchar	Blank	^0^0

MWROWSTATE	int	Filler	Blank
numberofmarketwatch fields	int	Number of columns in marketwatch Details of these columns to be repeat	39
MWFFieldId0	bigint	Column ID needs to be sent which is received in PreAddArbitrageMarketWatch response	2690
MWFLegId0	int	Filler	0
MWFFMId0	int	Filler	0
MWFPosition0	int	Filler	0
MWFFIELD10	bigint	Filler	Blank
MWFFIELD20	int	Filler	Blank
MWFFIELD30	varchar	Filler	Blank
MWFFIELD40	varchar	Filler	Blank
MWFROWSTATE0	Int	RowState	Blank
MWFFieldId1	bigint	Column ID needs to be sent which is received in PreAddArbitrageMarketWatch response	2692
MWFLegId1	int	Filler	0
MWFFMId1	int	Filler	0
MWFPosition1	int	Filler	Blank
MWFFIELD11	bigint	Filler	Blank
MWFFIELD21	int	Filler	Blank
MWFFIELD31	varchar	Filler	Blank
MWFFIELD41	varchar	Filler	Blank
MWFROWSTATE1	Int	RowState	Blank
SessionKey	varchar(62)	Unique key for identify user session	1907520730-01115169168
Thick Client	char(1)	Thick client	Y

1.1.83 Create New Market Watch Reply

Message Name	**AddArbitrageMarketWatch**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **create new market watch** request. The reply message contains the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum Number of Records**	**11**		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	Status of Request	int	Status of request and data summary details	0||1|19
Record2	Market data	varchar	Market data	8440|65|Market|1|3|65|2018-08-02 11:49:31.839|null|nul

				I|0|null|null|^0^0,|1|1|N|1|1|null
Record3	Status of Request	int	Status of request and data summary details	0||39|13
Record(4 to 11)	Market Watch Column data	varchar	Market Watch Column data	99080|2300|0|3|Tot Trd Qty||80|1|0|2|7|||1

Detail Description of Record 1: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of Request	int	Successful=0 Failed=1	0
2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
3	Number of records	int	Number of records	1
4	Number of Column	int	Number of Column	19

Detail Description of Record 2: Column Data

Field No	Field Name	Type	Description	Values, meanings, Validations
1	MWID	int	MarketWatch ID	8440
2	MWUSID	int	Internal ID of the User who has logged in.	65
3	MWName	varchar	MarketWatch name	Market
4	MWSegmentId	int	Unique numeric Identifier for Product. By default 1 to be sent.	For details Refer to Appendix section 1.1
5	MWFormat	int	Market Watch Format. By default 3 to be sent.	3
6	MWCreatedBy	int	Internal ID of the User who has logged in.	65
7	MWCreatedAt	int	Market watche creation time.	2019-04-05 15:30:42.405
8	MWLastUpdatedBy	int	NA	Filler
9	MWLastUpdatedAt	int	NA	Filler
10	MWFIELD1	int	Filler	Blank
11	MWFIELD2	int	Filler	Blank
12	MWFIELD3	varchar	Filler	Blank
13	MWFIELD4	varchar	Filler	^0^0
14	MWROWSTATE	int	NA	1
15	MWType	char	Market Watch Type	1
16	MWAdmin	varchar	Market Watch Admin	N
17	MWNoOfLegs	int	Market Watch no of legs	1
18	MWSortType	int	Market Watch sort type	1

19	MWSortFrequency	int	Market Watch sort Frequency	Filler

Detail Description of Record 3: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of Request	int	Successful=0 Failed=1	0
2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
3	Number of records(as per user selection)	int	Number of records	39
4	Number of column data	varchar	Blank	13

Detail Description of Record 4: Market Watch Column Data

Field No	Field Name	Type	Description	Values, meanings, Validations
1	MWFId	int	Market Watch field internal ID(Incremental)	99080
2	MWFFieldId	int	MarketWatch Field ID/column ID	2300
3	MWFLegId	int	NA	0
4	MWFPosition	int	MarketWatch column position	3
5	Column Name	varchar	Column Name	Tot Trd Qty, Upper Ckt
6	FormulaText	varchar	Filler	Filler
7	Filler	varchar	Filler	80
8	Align	int	Alignment	1
9	Hidden	int	Filler	Blank
10	Data Type	int	Type of the Data String=1 Integer=2 Double=3	3
11	SFPosition	int	Column postion	7
12	MWFSortOrder	int	Filler	Blank
13	MWFSortSequence	int	filler	Blank
14	MWFRowstate	int	Filler	1

1.1.84 Set Default Market watch Request

Message Name	**SetDefaultMarketWatchForUser**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **set default market watch.**

Field Name	Type	Description	Values, meanings, Validations
marketwatchid	bigint	Market watch ID which one user one want make default.	2
Thick Client	char(1)	Thick client	Y
SessionKey	varchar(62)	Unique key for identify user session.	2124574344-04073078075024079079

1.1.85 Set Default Market Watch Reply

Message Name	**SetDefaultMarketWatchForUser**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **set default market watch**. The reply message contains the transaction after it was processed (i.e. success or failure).

Sr.No.	Field Name	Type	Description	Values, meanings, Validations
Record1:Field1	Status of Request	int	Successful=0 Failed=1	0
Record1:Field2	Error Details message	varchar	If Filed=0 then Success message or If Field=1 then Error message	Default Marketwatch is successfully set.

1.1.86 Open Market Watch Request

Message Name	**ListArbitrageMarketWatch**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **open market watch.**

Field Name	Type	Description	Values, meanings, Validations
marketwatchusid	varchar	Login ID of the User/Client who has logged in.	Client1-t9065
MWID	int	MarketWatch ID	8001

SessionKey	varchar(62)	Unique key for identify user session	801376505-02251199
Thick Client	char(1)	Thick client	Y

1.1.87 Open Market Watch Reply

Message Name	**ListArbitrageMarketWatch**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **open market watch request**. The reply message contains the Market ID, Market name and the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum Number of Records**	**8**		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	Status of Request	int	Status of request and data summary details	0||1|19
Record2	Column data	varchar	Data as per column order set	8176|65|new|1|3|65|2018-02-02 11:08:35.727|null|null|0|null|null|^0^0,|1|1|N|1|1|0
Record3	Status of Request	int	Status of request and data summary details	0||31|14
Record4	Market Watch Column Detail(number of Column depends on as per user selection)	varchar	Data as per column selection	91279|2294|0|0|Exchange||80|1|0|1|48|||1
Record5:Field1	Status of Request	int	Successful=0 Failed=1	0 or 1
Record5:Field2	filler	Blank	Blank	
Record5:Field3	Number of records	int	Number of records	5
Record5:Field4	Number of Records with data and summary	varchar	Number of records with data summary	48
Record6	Column data	varchar	Column Data	61||1|3|7|0|1400004|45|29378.00|-|0.00|0.00|10|11:47:15 AM|29373.02|12|29378.00|32|0|0.00|0|29378.00|29378.00|29378.00|29371.00|0.00|0.00|1321000.0|11|30259.34|28496.66|0|0|0||0.00||GOLD||FUTCO

				M|1533254400|-0.01||||GOLD|1|3654.00|BSE|Commodities||10 GRMS|28496.6600-30259.3400|03 Aug 2018||||7^1^3|0.00|0.00|0|0.00|0.00|0.00|||||||0.00|||||
Record7	Status of Request	int	0=Successful 1=Failed	0||5|5
Record8	Column data	varchar	Data per Column header	109369|2|1|100019|4

Detail Description of Record 1: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of Request	int	Successful=0 Failed=1	0
2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
3	Number of records	int	Number of records	1
4	Filler	int	filler	19

Detail Description of Record 2: Column Data

Field No	Field Name	Type	Description	Values, meanings, Validations
1	MWID	int	Market Watch ID	8176
2	MWUSID	int	Internal Login ID of the User who has logged in.	65
3	MWName	varchar	Market Watch name	Test1
4	MWSegmentId	int	Unique numeric Identifier for Product	1
5	MWFormat	int	MarketWatch format	3
6	MWCreatedBy	int	Market watch created User ID	65
7	MWCreatedAt	Datetime (8)	Market watch creation time	2019-04-09 15:48:55.003
8	MWLastUpdatedBy	int	Market watch updated User ID	null
9	MWLastUpdatedAt	int	Market watch creation time	null
10	MWFIELD1	int	Filler	0
11	MWFIELD2	int	Filler	null
12	MWFIELD3	varchar	Filler	null
13	MWFIELD4	varchar	MWFIELD4	
14	MWROWSTATE	int	RowState	6

15	MWType	char	MarketWatch Type	1
16	MWAdmin	varchar	MarketWatch Admin	N
17	MWNoOfLegs	int	MarketWatch no of legs	1
18	MWSortType	int	MarketWatch sort type	1
19	MWSortFrequency	int	MarketWatch sort Frequency	Blank

Detail Description of Record 3: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of Request	int	Successful=0 Failed=1	0
2	Error Details	varchar	If Field1= 1 then error message otherwise blank	
3	Number of records(As per user selection)	int	Number of records	31
4	Number of column data	varchar	Number of columns	14

Detail Description of Record 4: Market Watch Column Detail

Field No	Field Name	Type	Description	Values, meanings, Validations
1	MWFId	int	Market Watch id/Refrence ID(Incremental ID)	99080
2	MWFFieldId	int	MarketWatch Field ID/column ID	2300
3	MWFLegId	int	NA	0
4	MWFPosition	int	MarketWatch column position	3
5	Column Name	varchar	Column Name	Tot Trd Qty, Upper Ckt
6	FormulaText	varchar	Filler	Filler
7	Filler	varchar	Filler	80
8	Align	int	Alignment	1
9	Hidden	int	Filler	Blank
10	Data Type	int	Type of the Data String=1 Integer=2 Double=3	3
11	SFPosition	int	Column postion	7
12	MWFSortOrder	int	Filler	Blank
13	MWFSortSequence	int	Filler	Blank
14	MWFRowstate	int	Filler	1

Detail Description of Record 5: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of Request	int	Successful=0 Failed=1	0
2	Error Details	varchar	If Field1= 1 then error message otherwise blank	
3	Number of records	int	Number of records	5
4	Number of Records with data and summary	varchar	Number of Records with data and summary	48

Detail Description of Record 6 (Market watch details): Column Data

Field No	Field Name	Type	Description	Values, meanings, Validations
1	MessageType	bigint	Message Type	e.g. 61
2	LogTime	bigint	Server Log time	e.g. 12:58:59 PM BSE all markets and NCDEX = blank All other markets = Logtime
3	Source	bigint	Exchange ID	e.g. 1 For details Refer to Appendix section 1.1
4	Market	bigint	Market ID	e.g. 4 For details Refer to Appendix section 1.1
5	TOKEN	bigint	The token number of the Contract.This is internal token number received in Scrip/Contract Master.	e.g. 3451
6	NSETOKEN	bigint	Exchange Instrument ID	BSE Equity Derivative, Currency and SLB = 0 or -1 BSE Commodity, ITP and NSE Currency = 0 or Exchange Instrument ID All other Markets= Exchange Instrument ID
7	BSETOKEN	bigint	Exchange Instrument ID	BSE Currency, ITP and NSE currency = 0 or Exchange

				Instrument ID NSE Equity, Derivative, NCDEX and MCX = 0 or -1 BSE all other markets = Exchange Instrument ID
8	VolumeTradedToday	bigint	The total quantity of a security traded on the current day.	e.g. 10
9	LastTradedPrice	bigint	The price at which the latest trade in a security has taken place.	e.g. 80.0575
10	NetChangeIndicator	bigint	This is a flag which indicates any change of the order price from the LTP. for increase="+" for decrease="-" For all other cases=Blank	-
11	NetChange	bigint	The net change between the closing price and the LTP.	e.g. -0.79
12	NetChangePercentage	bigint	The net change percentage	e.g. -0.97
13	LastTradeQuantity	bigint	The quantity at which the last trade took place in a security.	e.g. 1
14	LastTradeTime	bigint	The time when the last trade took place in a security.	11:37:51 AM
15	AverageTradePrice	bigint	The average price of all the trades in a security.	e.g. 79.9427
16	Number of Buy Orders Quantity1	bigint	Number of Best Buy Orders	e.g. 800
17	Price of Buy Orders Quantity1	bigint	The price of the best Buy order.	1517
18	TotalBuyQuantity	bigint	The total quantity of buy orders in a security.	e.g. 2400
19	Number of Sell Orders Quantity6	bigint	Number of Best Sell Orders	e.g. 400
20	Price of Buy Orders Quantity6	bigint	The price of the best Sell order.	1600
21	TotalSellQuantity	bigint	The total quantity of sell orders in a security.	800
22	ClosePrice	bigint	The closing price of a security/Contract.	e.g. 80.8475

23	OpenPrice	bigint	The open price of a security/Contract.	e.g. 80.065
24	HighPrice	bigint	The highest trade price for a day.	e.g. 80.065
25	LowPrice	bigint	The lowest trade price for a day.	e.g. 79.665
26	YearlyLow	bigint	Yearly Low price for the scrip/Contract.	e.g. 0
27	YearlyHigh	bigint	Yearly Highest Price for the scrip/Contract.	0
28	ValueTradedToday	bigint	The value of the security traded today in Lakhs.	e.g. 7.99 lacs
29	NumberOfTradesToday	bigint	The total quantity of the security that has been traded today.	e.g. 10
30	UpperCircuit	bigint	The daily upper price limit.	e.g. 82.46
31	LowerCircuit	bigint	The daily lower price limit.	e.g. 77.66
32	BuyExchange	bigint	NA	e.g. 0
33	SellExchange	bigint	NA	e.g. 0
34	ABSOLUTEDIFF	bigint	Change in Price with respect to previous day close price.	e.g. 79.6575
35	PERCENTAGEDIFF	bigint	NA	NA
36	UNDERLYINGLTP	bigint	NA	e.g. 0
37	LastUpdateTime	bigint	Last Update time of Market data	
38	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. EURINR18JULFUT
39	Series	bigint	Series ID	Equity= EQ/BE Repo= Security Type All other markets= blank
40	InstrumentType	varchar(10)	Instrument type	EQUITY = blank REPO= Repo Type All other Markets = Instrument Type
41	OEExpiryDate	bigint	This date is the actual last trading date of the Product.	Equity contract= NA All other Market= Contract expiry date
42	OEStrikePrice	bigint	Strike price of option contract.	Equity & Futures contract= blank Repo= Repo Tenor Currency Option Contract= Strike

				Price * 10000 For all other Option Contract= Strike Price * 100
43	OEOptionType	char(2)	This field contains the option type. CALL= CE PUT= PE	Equity & Futures=Blank Repo= Settlement Type Option Contract = CE/PE
44	ISINNumber	varchar(30)	ISIN number of security.	blank
45	BSEGroup	varchar(1)	Equity trading group.	Equity= A All other markets are blank
46	BSESymbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	eg.: EURINR
47	BoardLot	bigint	The board lot quantity. The regular lot order quantity must be a multiple of this quantity.	1000
48	DaysToExpiry	bigint	No of days to expiry	3654
49	Source	bigint	Exchange unique ID	For details Refer to Appendix section 1.1
50	Market	bigint	Market unique ID	For details Refer to Appendix section 1.1
51	Multiplier	bigint	Lot size	1000
52	PQFactor	bigint	Price Quatation Unit(Factor)	Filler
53	Trading Unit	bigint	Trading Unit	Filler
54	Expiry date	bigint	This date is the actual last trading date of the Product. DD-MM-YYYY format	e.g. 27-07-2018 Equity & Futures contract= Blank All other Market= Contract expiry date
55	Open Interest	bigint	The open interest value.	e.g. 5426 BSE and NSE Equity= Blank blank or Percentage Difference
56	openInterestHigh	bigint	The open high interest value.	0
57	openInterestLow	bigint	The open low interest value.	0
58	SecurityKey	bigint	Security key	270^1^4
59	Filler	filler	Filler	0
60	Filler	filler	Filler	0
61	Filler	filler	Filler	0
62	Filler	filler	Filler	0
63	Filler	filler	Filler	0
64	Filler	filler	Filler	0
65	Filler	filler	Filler	filler
66	UnderlyingAsset	varchar(30)	Unique symbol / Asset Code	e.g. ALS

			defined for each asset.	BSE derivative = UnderlyingAsset All other markets=blank
67	SettlementType	varchar(2)	Repo Settlement type (Applicable only for REPO)	T0 or T1 BSE Repo= SettlementType All other markets=blank
68	RepoTenure	bigint	Repo Tenor (In Days) (Applicable only for REPO)	e.g. 4 BSE Repo= RepoTenure All other markets=blank
69	SecurityType	varchar(2)	Security type (Applicable only for REPO)	CB or CD or CP BSE Repo= SecurityType All other markets=blank
70	Transferable	varchar(2)	T=Transferable NT= Non Transferable security (Applicable only for REPO)	T or NT BSE Repo= Transferable All other markets=blank
71	FutureLTP	varchar	Future LTP	The LTP of Future contract of BSE & NSE Derivative option contract All other Markets= blank
72	BorrowAMT	bigint	Repo Borrow amount Only for REPO Market	e.g. 0 Repo=Buy quantity All other markets=blank
73	BorrowRate	bigint	Repo borrow rate Only for REPO Market	e.g. 0 Repo=Quantity1 All other markets=Blank
74	LendAMT	bigint	Repo lend amount Only for REPO Market	e.g. 0 Repo=Price1 All other markets=

				Blank
75	LendRATE	bigint	Repo lend rate Only for REPO Market	e.g. 0 Repo=Quantity6 All other markets= Blank
76	LastTradeRate	bigint	Repo last trade rate Only for REPO Market	e.g. 0 Repo=Price6 All other markets= Blank
77	LastTradeAMT	bigint	Blank Only for REPO Market	e.g. 0 Repo=Last Trade Quantity All other markets=0

Detail Description of Record 7: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of Request	int	Successful= 0 Failed= 1	0
2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
3	Number of records	int	Number of records	5
4	Number of Records with data and summary	varchar	Number of Records with data and summary	5

Detail Description of Record 8: Column Data

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Id	int	Internal ID	109369
2	ExId	int	Exchange ID	For details Refer to Appendix section 1.1
3	SegmentId	int	Unique numeric Identifier for Product	For details Refer to Appendix section 1.1
4	Token	int	Contract internal number	100019
5	RowState	int	RowState	4

1.1.88 PreEdit Market Watch Request

Message Name	PreEditArbitrageMarketWatch
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **edit the market watch.**

Field Name	Type	Description	Values, meanings, Validations
MWID	int	MarketWatch ID	8176
MWUSID	bigint	Login ID of the User/Client who has logged in.	Client1-T9065
SessionKey	varchar(62)	Unique key for identify user session	1471363689-01174228227
Thick Client	char(1)	Thick client	Y

1.1.89 PreEdit Market Watch Reply

Message Name	**PreEditArbitrageMarketWatch**
Type of Message	HTTP Response
Description	This is the reply message sent in response **to edit the market watch** request. The reply message contains the MarketWatch id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum Number of Records**	**83**		
S.No	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	Status of Request	int	Status of request and data summary details	0||1|19
Record2	Column Data	varchar	Data Column header	8176|65|Market|1|3|65|2018-02-02 11:08:35.727|null|null|0|null|null|^0^0,|1|1|N|1|1|0
Record3	Status of Request	int	Status of request and data summary details	0||31|10
Record4	Column Data(As per user selection)	varchar	Data Column header	91280|1|0|1|2298|Market|1|0|||0
Record5	Status of Request	int	Status of request and data summary details	0||69|5
Record6	Column Data	varchar	Data per Column header	2295|5|Ntoken|1|0
Record7	Status of Request	int	Status of request and data summary details	0||3|1
Record8	Column Data	varchar	Formula Master	7|Yield Bid|100*(0.Coupon+(100-0.BuyPrice)/(0.NoOfDays))/((100+0.BuyPrice)/2)|1

Detail Description of Record1: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of Request	int	Successful=0 Failed=1	0
2	Error Details	varchar	If Field1= 1 then error message otherwise blank	
3	Number of records	int	Number of records	1
4	Number of Records with data and summary	varchar	Blank	19

Detail Description of Record2: Column Data

Field No	Field Name	Type	Description	Values, meanings, Validations
1	MWID	int	MarketWatch ID	8176
2	MWUSID	int	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	65
3	MWName	varchar	MarketWatch name	Market
4	MWSegmentId	int	Unique numeric Identifier for Product	For details Refer to Appendix section 1.1
5	MWFormat	int	Market watch Format	3
6	MWCreatedBy	int	Market Watch created User ID.	65
7	MWCreatedAt	datetime(8)	Market watch created time.	2019-04-09 14:43:05.813
8	MWLastUpdatedBy	int	Updated last contract user ID.	null
9	MWLastUpdatedAt	int	Market watch updated time.	null
10	MWFIELD1	int	Blank	0
11	MWFIELD2	int	Filler	null
12	MWFIELD3	varchar	Filler	null
13	MWFIELD4	varchar	Blank	^0^0
14	MWROWSTATE	int	Number of updates	1
15	MWType	char	MarketWatch Type	1
16	MWAdmin	varchar	MarketWatch Admin	N
17	MWNoOfLegs	int	MarketWatch no of legs	1
18	MWSortType	int	MarketWatch sort type	1
19	MWSortFrequency	int	MarketWatch sort frequency	0

Detail Description of Record 3: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of Request	int	Status of request and data summary details	0
2	Error Details	varchar	If Field1= 1 then error message	

			otherwise blank	
3	Number of records(As per user selection	int	Number of records	31
4	Number of Records with data and summary	varchar	Number of Records with data and summary	10

Detail Description of Record 4: Column Data (As per user selection)

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Id	int	Market Watch field Internal id (Incremental)	91280
2	RowState	int	MarketWatchFields id	1
3	LegId	int	MarketWatchFields leg id	0
4	Position	int	MarketWatchFields position	1
5	MWFFieldId	int	Market WatchFields field id/Column ID	2298
6	Display Name	varchar	Column display name	Market
7	TypeRemovableBit	int	Blank	1
8	FMId	int	FormulaMaster internal id	0
9	FMName	int	FormulaMaster Name	Filler
10	FMFormula	varchar	FormulaMaster Formula	Filler

Detail Description of Record 5: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of Request	int	Successful=0 Failed=1	0
2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
3	Number of records(As per user selection	int	Number of records	69
4	Number of Records with data and summary	varchar	Number of column data	5

Detail Description of Record 6: Column Data

Field No	Field Name	Type	Description	Values, meanings, Validations
1	SFId	int	Screen Field id/Column ID	2295
2	SFPosition	int	Screen Field column Position	5
3	SFDisplayName	varchar	Screen Field column Name	Ntoken
4	TypeRemovableBit	int	Type Removable Bit	1
5	TypeDefaultBit	int	Type Default Bit	0

Detail Description of Record 7: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of Request	int	Successful=0 Failed=1	0
2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
3	Number of records	int	Number of records	3
4	Number of Records with data and summary	varchar	Number of Records with data and summary	4

Detail Description of Record 8: Formula Master

Field Name	Type	Description	Values, meanings, Validations
FMId	Int	Formula Master internal id	7
FMName	varchar	Formula Master Name	Yield Bid
FMFormula	varchar	FormulaMaster Formula	100*(0.Coupon+(100-0.BuyPrice)/(0.NoOfDays))/((100+0.BuyPrice)/2)
FMNoOfLegs	Int	Formula Master No of Legs	1

1.1.90 Edit Market Watch Request

Message Name	**EditArbitrageMarketWatch**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **edit the market watch.**

Field Name	Type	Description	Values, meanings, Validations
MWUSID	Int	Internal ID of the User/Client who has logged in.	65
MWName	varchar	MarketWatch name	Market
MWSegmentId	Int	MarketWatch segmentid	1
MWFormat	Int	MarketWatch format	3
MWNoOfLegs	Int	No of legs	1
MWType	Char	MarketWatch type	1
MWAdmin	varchar	MarketWatch admin	N
MWFIELD1	bigint	Filler	Blank
MWFIELD2	Int	Filler	Filler
MWFIELD3	varchar	Filler	Filler
MWFIELD4	varchar	filler	^0^0
MWROWSTATE	Int	RowState	1

MWID	Int	Market watch Internal Id	8176
MWSortType	Int	MarketWatch sort type	1
MWSortOrder	Int	MarketWatch sort order	Filler
MWSortFrequency	Int	NA	Blank
numberofmarketwatch fields	Int	Number of marketwatch fields. Below substructure should be repeated by Number of columns	28
MWFFieldId0	bigint	Market Watch Column Id	2690
MWFLegId0	Int	Filler	Blank
MWFFMId0	Int	Market watch Formula Master ID	Blank
MWFPosition0	Int	MarketWatch Field postion	16
MWFFIELD10	bigint	Filler	Filler
MWFFIELD20	Int	Filler	Filler
SessionKey	varchar(62)	Unique key for identify user session	1471363689-01174228227
Thick Client	char(1)	Thick client	Y

1.1.91 Edit Market Watch Reply

Message Name	**EditArbitrageMarketWatch**
Type of Message	HTTP Response
Description	This is the reply message sent in response **to edit the market watch** request. The reply message contains the MarketWatch id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum Number of Records**	**4**		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	Status of Request	int	Status of request and data summary details	0||1|19
Record2	Column Data	varchar	Data per Column header	8176|65|Market|1|3|65 |2019-04-09 14:43:33.435|null|null|0|null|null|^0^0,|1|1|N|1|1|0
Record3	Status of Request	int	Successful=0 Failed=1	0||28|13
Record4	Column Data(As per user selection)	varchar	Data per Column header	91269|2690|0|16|Upper Ckt||80|1|0|3|29|||2

Detail Description of Record 1: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of Request	int	Successful=0 Failed=1	0
2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
3	Number of records	int	Number of records	1
4	Number of Records with data and summary	varchar	Number of column data	19

Detail Description of Record 2: Column Data

Field No	Field Name	Type	Description	Values, meanings, Validations
1	MWID	int	MarketWatch ID	8176
2	MWUSID	int	Internal Login ID of the User who has logged in.	65
3	MWName	varchar	MarketWatch name	Market
4	MWSegmentId	int	Unique numeric Identifier for Product	For details Refer to Appendix section 1.1
5	MWFormat	int	Market watch Format	3
6	MWCreatedBy	int	Market watch created User ID.	65
7	MWCreatedAt	int	Market watch created time.	2019-04-09 14:43:33.435
8	MWLastUpdatedBy	int	Updated last Market watch user ID.	Blank
9	MWLastUpdatedAt	int	Market watch last updated time.	Blank
10	MWFIELD1	int	NA	NA
11	MWFIELD2	int	Filler	NA
12	MWFIELD3	varchar	Filler	NA
13	MWFIELD4	varchar	Blank	^0^0
14	MWROWSTATE	int	RowState	1
15	MWType	char	MarketWatch type	1
16	MWAdmin	varchar	MarketWatch admin	N
17	MWNoOfLegs	int	MarketWatch no of legs	1
18	MWSortType	int	MarketWatch sort type	1
19	MWSortFrequency	int	MarketWatch sort frequency	Blank

Detail Description of Record 3: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of Request	int	Successful=0 Failed=1	0

2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
3	Number of records(As per user selection)	int	Number of records	28
4	Number of Records with data and summary	varchar	Number of Records with data and summary	13

Detail Description of Record 4: Column Data

Field No	Field Name	Type	Description	Values, meanings, Validations
1	MWFId	int	Market Watch Field internal ID(Incremental)	99080
2	MWFFieldId	int	MarketWatch Fields ID/column id	2300
3	MWFLegId	int	Leg ID	0
4	MWFPosition	int	MarketWatch column position	3
5	Column Name	varchar	Column Name	Tot Trd Qty, Upper Ckt
6	FormulaText	varchar	Filler	Filler
7	Filler	varchar	Filler	80
8	Align	int	Alignment	1
9	Hidden	int	Filler	Blank
10	Data Type	int	Type of the Data	2,3
11	SFPosition	int	Column postion	7
12	MWFSortOrder	int	Filler	Blank
13	MWFSortSequence	int	filler	Blank
14	MWFRowstate	int	Filler	1

1.1.92 Delete Market Watch Request

Message Name	**DeleteMarketWatch**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **delete the Market watch.**

Field Name	Type	Description	Values, meanings, Validations
MWID	Int	MarketWatch ID	8001
SessionKey	varchar(62)	Unique key for identify user session	1471363689-01174228227
Thick Client	char(1)	Thick client	Y

1.1.93 Delete Market Watch Reply

Message Name	**DeleteMarketWatch**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **delete the market watch** request. The reply message contains the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum Number of Records**	**1**		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	int	Successful=0 Failed=1	0
Record1:Field2	Error or successfully message	varchar	If field1= 1 then error message otherwise successful message	Market Watch Deleted Successfully

1.1.94 Add Scrip/Contract in Market Watch Request

Message Name	**AddArbitrageMarketWatchTokens**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOLTPLUS when the user wants to **add Contract/Script** in market watch.

Field Name	Type	Description	Values, meanings, Validations
rowcount	bigint	rowcount	1
MWTMWID0	bigint	MarketWatch ID. User needs to send the Unique Market Watch ID which is received in Market Watch Create Reply.	e.g. 8001
MWTSegmentId0	bigint	Unique numeric Identifier for Product	For details Refer to Appendix section 1.1
MWTEXID0	bigint	Exchange ID	For details Refer to Appendix section 1.1
MWTToken0	bigint	The token number of the Contract.This is internal token number received in Scrip/Contract Master	e.g. 78820
SCSymbol0	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. ACC,ALS,GOLD,EUINR etc.
SCSeries0	char(2)	Unique Series Id	Equity= EQ\BE Repo= Security Type All other markets= blank
NCNInstrumentName	varchar(10)	Instrument Type	EQUITY= blank

0			REP = Repo Type All other Markets = Instrument Type
NCNExpiryDate0	bigint	This date is the actual last trading date of the Product (In seconds).	e.g. 1556236800 Equity contract= NA All other Market= Contract expiry date
NCNStrikePrice0	bigint	Strike price of option contract.	Equity & Futures contract= blank Repo = Repo Tenor Currency Option Contract= Strike Price * 10000 All other Option Contract= Strike Price * 100
NCNOptionType0	char(2)	This field contains the option type. CALL=CE PUT=PE	Equity & Futures= blank Repo = Settlement Type Option Contract = CE/PE
MWTRowNo0	bigint	Row internal no where this contract to be inserted.	e.g. 6
MWTLegId0	bigint	No of legs	e.g. 0
SessionKey	varchar(62)	Unique key for identify user session	2007100101-04204209206155210210
Thick Client	char(1)	Thick client	Y

1.1.95 Add Scrip/Contract in Market Watch Reply

Message Name	**AddArbitrageMarketWatchTokens**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **add Contract/Script** request. The reply message the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum number of records**	**4**		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	Status of request	int	Status of request and record details	0||1|48
Record2	Market Data	varchar	Current Market data for token	All other market format= 61||1|4|270|0|1009283|1|79.1200|+|0.445|0.56|1|11:47:12 AM|79.1200|3|79.1200|3|0|.0

<table>
<tr><td></td><td></td><td></td><td></td><td>000|0|78.6750|79.1200|79.1200|79.1200|.0000|.0000|7.912|1|81.4900|76.7400|0|0|-79.1200|5416|.0000||EURINR18JULFUT||FUTCUR|1532649600|-0.01||||EURINR|1000|3655.00|BSE|Currency|1000|||27 Jul 2018|5416|0|0|270^1^4|0.00|.00|0.00|0.00|0.00|0.00|||||||.0000||||||EURINR18JULFUT||FUTCUR|1532649600|-0.01||||EURINR|1000|3655.00|BSE|Currency|1000|||27 Jul 2018|5416|0|0|270^1^4|0.00|.00|0.00|0.00|0.00|0.00|||||||

For Repo=
61||1|9|2083|0|1609209|0|0.00|0|0.00|0.00|0||0.00|0|0.00|0|0|0.00|0|0.00|0.00|0.00|0.00|0.00|0.00|0|0|20.00|2.00|0|0|0|
|0.00||CBAAAPSU1TO5|||1532908800|0.00||||0|3658.00|BSE|Repo||||30 Jul 2018||||2083^1^9|0.00|0.00|0|0.00|0.00|0.00|||T0|7|CB|NT||0.00|0|0.00|0|0.00|0.00|0||CBAAAPSU1TO5|||1532908800|0.00|||||0|3658.00|BSE|Repo||||30 Jul 2018||||2083^1^9|0.00|0.00|0|0.00|0.00|0.00|||T0|7|CB|NT|</td></tr>
<tr><td>Record3</td><td>Status of request</td><td>int</td><td>Status of request and record details</td><td>0||1|5</td></tr>
<tr><td>Record4</td><td>Internal ID</td><td>bigint</td><td>Scrip/Contract Token,Exchange, Market, and segments details</td><td>109601|1|2|270|1</td></tr>
</table>

Detail Description of Record 1: Status of Request and Record Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of request	int	Successful=0 Failed=1	0
2	Error details	varchar	If field=1 then error details Otherwise blank	blank
3	Number of records	int	Number of records	1
4	Number of Column data	int	Number of Column data	5

Detail Description of Record 2: Current Market Data for Token

Field NO	Field Name	Type	Description	Values, meanings, Validations
1	MessageCode	bigint	Message Code	e.g. 61
2	LogTime	bigint	Server Log time	e.g. 12:58:59 PM BSE all markets and NCDEX = blank All other markets = Logtime
3	Exchange	bigint	Exchange ID	For details Refer to Appendix section 1.1
4	Market	bigint	Market ID	For details Refer to Appendix section 1.1
5	Token	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master.	e.g. 270
6	NSETOKEN	bigint	Exchange Instrument ID	BSE Equity Derivative, Currency and SLB = 0 or -1 BSE Commodity, ITP and NSE Currency = 0 or Exchange Instrument ID All other Markets= Exchange Instrument ID
7	BSETOKEN	bigint	Exchange Instrument ID	BSE Currency, ITP and NSE currency = 0 or Exchange Instrument ID NSE Equity, Derivative, NCDEX and MCX = 0 or -1 BSE all other markets = Exchange Instrument ID
8	VolumeTradedToday	bigint	The total quantity of a security traded on the current day.	e.g. 10
9	LastTradedPrice	bigint	The price at which the last trade in a security has taken place.	79.675 0 or Last Traded Price

10	NetChangeIndicator	varchar	This is a flag which indicates any change of the order price from the LTP. for increase="+" for decrease="-" For all other cases=Blank	"+" or "-"
11	NetChange	bigint	This field contains the net change between the closing price and the LTP.	e.g. 1
12	NetChangePercentage	bigint	The net change percentage	e.g. 1.27
13	LastTradedQuantity	bigint	The quantity at which the last trade took place in a security.	e.g. 5
14	LastTradeTime	bigint	The time when the last trade took place in a security.	e.g. 10:58:03(HH:MM:SS) Blank or Last trade time
15	AverageTradePrice	bigint	The average price of all the trades in a security.	79.675
16	Number of Buy Orders Quantity1	bigint	Number of Best Buy Orders	e.g. 800
17	Price of Buy Orders Quantity1	bigint	The price of the best Buy order.	1517
18	TotalBuyQuantity	bigint	The total quantity of buy orders in a security.	e.g. 2400
19	Number of Sell Orders Quantity6	bigint	Number of Best Sell Orders	e.g. 400
20	Price of Buy Orders Quantity6	bigint	The price of the best Sell order.	1600
21	TotalSellQuantity	bigint	The total quantity of sell orders in a security.	800
22	ClosePrice	bigint	The closing price of a security/Contract.	78.675
23	OpenPrice	bigint	The open price of a security/Contract.	79.675
24	HighPrice	bigint	This field the highest trade price for a day.	79.675
25	LowPrice	bigint	The lowest trade price for a day.	79.675
26	YearlyLow	bigint	Yearly Low price for the scrip/Contract.	e.g. 60.50

27	YearlyHigh	bigint	Yearly Highest Price for the scrip/Contract.	e.g. 90.50
28	ValueTradedToday	bigint	The value of the security traded today in Lakhs.	7.96 lacs
29	NumberOfTradesToday	bigint	The total quantity of the security that has been traded today.	e.g. 2
30	UpperCircuit	bigint	The daily upper price limit.	81.49
31	LowerCircuit	bigint	The daily lower price limit.	76.74
32	BuyExchange	bigint	NA	e.g. 0
33	SellExchange	bigint	NA	e.g. 0
34	Change in price	bigint	Change in Price with respect to previous day close price.	e.g. -79.12
35	PercentageDiff	bigint	Percentage difference (Open Interest)	5426 Equity=Blank
36	Underlying LTP	bigint	NA	0
37	LastUpdateTime	bigint	Last Update time of Market data	e.g. 6:12 AM NSE Equity,Currency and MCX =LastUpdateTime All other Market =blank
38	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. EURINR18JULFUT, ACC
39	Series	bigint	Series ID	Equity= EQ/BE Repo= Security Type All other markets= blank
40	InstrumentType	varchar(10)	Instrument type	EQUITY = blank REPO= Repo Type All other Markets = Instrument Type
41	OEExpiryDate	bigint	This date is the actual last trading date of the Product (In seconds).	e.g. 1556236800 Equity contract= NA All other Market= Contract expiry date
42	OEStrikePrice	bigint	Strike price of option contract.	Equity & Futures = blank Repo= Repo Tenor All other option Contract = Strike price *100 Currency Option

				Contract =Strike Price * 10000
43	OEOptionType	char(2)	This field contains the option type. CALL= CE PUT= PE	Equity & Futures= blank Repo= Settlement Type Option Contract = CE/PE
44	ISINNumber	varchar(30)	ISIN number of security.	e.g. INE176A01028 BSE Equity = ISINNumber All other markets = Blank
45	BSEGroup	varchar(1)	Equity trading group	BSE Equity= A All other markets = blank
46	BSESymbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	eg.: EURINR
47	BoardLot	bigint	The board lot quantity. The regular lot order quantity must be a multiple of this quantity.	e.g. 100
48	DaysToExpiry	bigint	No of days to expiry	e.g. 3654
49	Source	bigint	Exchange unique ID	For details Refer to Appendix section 1.1
50	Market	bigint	Market unique ID	For details Refer to Appendix section 1.1
51	Multiplier	bigint	Lot size	e.g. 1000 BSE Currency & Derivative = Multiplier All other Markets =blank
52	PQFactor	bigint	Price Quatation Unit(Factor)	e.g. 10 GRMS BSE & MCX Commodity = PQFactor All other markets =blank
53	Trading Unit	bigint	Trading Unit	e.g. 1000 BSE & MCX Commodity = Trading Unit All other markets =blank
54	Expiry date	bigint	This date is the actual last trading date of the Product. DD-MMM-YY	e.g. 25-Oct-18 Equity and BSE ITP

			format	contract= Blank All other Market= Contract expiry date
55	Open Interest	bigint	Open interest for a contract/Security.	5426 Equity=Blank
56	openInterestHigh	bigint	NA	
57	openInterestLow	bigint	NA	
58	ContractKey	bigint	Security/Contract keys its combination of Token, Exchange and market.	270^1^4
59	Filler	filler	filler	0
60	Filler	filler	filler	0
61	Filler	filler	filler	0
62	Filler	filler	filler	0
63	Filler	filler	filler	0
64	Filler	filler	filler	0
65	Filler	filler	filler	filler
66	Underlying Asset	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. ALS BSE derivative = SymbolName All other markets=blank
67	SettlementType	varchar(2)	Repo Settlement type	T0 or T1 BSE Repo= SettlementType All other markets=blank
68	RepoTenure	bigint	Repo Tenor (In Days)	e.g. 4 BSE Repo= RepoTenure All other markets=blank
69	SecurityType	char(2)	Security type Only for REPO Market	CB or CD or CP BSE Repo= SecurityType All other markets=blank
70	Transferable	varchar(2)	T- Transferable /NT- Non Transferable security Only for REPO Market	T or NT BSE Repo= Transferable All other markets=blank
71	FutureLTP	bigint	Future LTP Only for REPO Market	The LTP of Future contract of BSE & NSE Derivative option contract All other Markets= blank
72	BorrowAMT	bigint	Repo Borrow amount Only for REPO Market	e.g. 0 Repo=Buy quantity

				All other markets=blank
73	BorrowRate	bigint	Repo borrow rate Only for REPO Market	e.g. 0 Repo=Quantity1 All other markets=Blank
74	LendAMT	bigint	Repo lend amount Only for REPO Market	e.g. 0 Repo=Price1 All other markets= Blank
75	LendRATE	bigint	Repo lend rate Only for REPO Market	e.g. 0 Repo=Quantity6 All other markets= Blank
76	LastTradeRate	bigint	Repo last trade rate Only for REPO Market	e.g. 0 Repo=Price6 All other markets= Blank
77	LastTradeAMT	bigint	Blank Only for REPO Market	e.g. 0 Repo=Last Trade Quantity All other markets=0
78	Filler	Filler	Filler	filler
79	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. EURINR18JULFUT
80	Series	char(2)	Series ID	Equity= EQ/BE Repo= Security Type All other markets= blank
81	InstrumentType	varchar(10)	Instrument type	EQUITY= blank REPO= Repo Type All other Markets = Instrument Type
82	OEExpiryDate	bigint	This date is the actual last trading date of the Product	e.g. 25-Oct-18 Equity contract= NA All other Market= Contract expiry date
83	OEStrikePrice	bigint	Strike price of option contract.	Equity & Futures contract= blank Repo= Repo Tenor Currency Option Contract= Strike Price * 10000 All other Option Contract= Strike Price * 100
84	OEOptionType	char(2)	This field contains the option type.	Equity & Futures= blank

			CALL: CE PUT : PE	Repo= Settlement Type Option Contract = CE/PE
85	ISINNumber	varchar(30)	ISIN number of security.	e.g. INE176A01028 BSE Equity = ISINNumber All other markets = Blank
86	BSEGroup	varchar(1)	Equity trading group	Equity= A All other markets are blank
87	BSESymbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. EURINR
88	BoardLot	bigint	The board lot quantity. The regular lot order quantity must be a multiple of this quantity.	e.g. 1000
89	DaysToExpiry	bigint	Number days to expiry.	e.g. 3654
90	Source	bigint	Exchange unique ID	For details Refer to Appendix section 1.1
91	Market	bigint	Market unique ID	For details Refer to Appendix section 1.1
92	Multiplier	bigint	Lot size	e.g. 1000 BSE Currency & Derivative = Multiplier All other Markets =blank
93	PQFactor	bigint	PQ Factor	e.g. 10 GRMS BSE & MCX Commodity = PQFactor All other markets =blank
94	Trading Unit	bigint	Trading Unit	e.g. 1000 BSE & MCX Commodity = Trading Unit All other markets =blank
95	Expiry date	bigint	This date is the actual last trading date of the Product. DD-MMM-YY format	eg: 27-sep-18 Equity and BSE ITP contract= Blank All other Market= Contract expiry date

96	Open Interest	bigint	The open interest value.	e.g. 5426 BSE Equity,Currency and MCX = OpenIntrest All other markets =blank
97	openInterestHigh	bigint	NA	NA
98	openInterestLow	bigint	NA	NA
99	SecurityKey	bigint	Security key	270^1^4
100	Filler	filler	filler	0
101	Filler	filler	filler	0
102	Filler	filler	filler	0
103	Filler	filler	filler	0
104	Filler	filler	filler	0
105	Filler	filler	filler	0
106	Filler	filler	filler	filler
107	UnderlyingAsset	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. ALS BSE derivative = UnderlyingAsset All other markets=blank
108	SettlementType	varchar(2)	Repo Settlement type Applicable only for REPO	T0 or T1 BSE Repo= SettlementType All other markets=blank
109	RepoTenure	bigint	Repo Tenor (In Days) Applicable only for REPO	e.g. 4 BSE Repo= RepoTenure All other markets=blank
110	SecurityType	varchar(2)	Security type Applicable only for REPO	CB or CD or CP BSE Repo= SecurityType All other markets=blank
111	Transferable	varchar(2)	T- Transferable /NT- Non Transferable security Applicable only for REPO	T or NT BSE Repo= Transferable All other markets=blank

Detail Description of Record 3: Status of Request and Record Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of request	int	Successful=0 Failed=1	0
2	Error Details message	varchar	If field= 1 then error message otherwise blank	blank
3	Number of records	int	Number of Records	1
4	Number of Column data	int	Number of Column data	5

Goto Index

Detail Description of Record 4: Exchange, Market and Segments Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Internal ID	bigint	Scrip/Contract internal token ID	109601
2	Exchange ID	bigint	Exchange ID	For details Refer to Appendix section 1.1
3	Segment ID	bigint	Market ID	For details Refer to Appendix section 1.1
4	Internal Token	bigint	The token number of the Contract.This is internal token number received in Scrip/Contract Master .	270
5	RowState	bigint	Row State	1

1.1.96 Add Multiple Scrip/Contract in Market Watch Request

Message Name	**AddArbitrageMarketWatchTokens**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **add more than one Contract/Script in market watch.**

Field Name	Type	Description	Values, meanings, Validations
MWTMWID0	bigint	MarketWatch ID. User needs to send the Unique Market Watch ID which is received in Market Watch Create Reply.	e.g. 8001
MWTSegmentId0	bigint	Unique numeric Identifier for Product	For details Refer to Appendix section 1.1
MWTEXID0	bigint	Exchange name with unique ID	For details Refer to Appendix section 1.1
MWTToken0	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master	e.g. 78820
SCSymbol0	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. 0835GOI22
SCSeries0	char(2)	Unique Series Id	Equity= EQ Repo= Security Type All other markets= blank
NCNInstrumentName0	varchar(10)	Instrument Type	EQUITY = blank REPO = Repo Type All other Markets = Instrument Type
NCNExpiryDate0	bigint	This date is the actual last trading date of the Product (in seconds).	Equity contract= blank

			All other Market= Contract expiry date
NCNStrikePrice0	bigint	Strike price of option contract.	Equity & Futures contract= blank Repo = Repo Tenor Currency Option Contract= Strike Price * 10000 All other Option Contract= Strike Price * 100
NCNOptionType0	char(2)	This field contains the option type. CALL=CE PUT=PE	Equity & Futures= blank Repo= Settlement Type Option Contract = CE/PE
MWTRowNo0	bigint	Row internal no	4
MWTLegId0	bigint	No of legs	0
MWTMWID1	bigint	MarketWatch ID. User needs to send the Unique Market Watch ID which is received in Market Watch Create Reply.	e.g. 8001
MWTSegmentId1	bigint	Unique numeric Identifier for Product	For details Refer to Appendix section 1.1
MWTEXID1	bigint	Exchange name with unique ID	For details Refer to Appendix section 1.1
MWTToken1	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master	e.g. 11696
SCSymbol1	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. 001CSSL25
SCSeries1	char(2)	Unique Series Id	Equity= EQ Repo= Security Type All other markets= blank
NCNInstrumentName 1	varchar(10))	Instrument Type	Equity = blank REPO = Repo Type All other Markets = Instrument Type
NCNExpiryDate1	bigint	This date is the actual last trading date of the Product (In seconds).	Equity contract= blank All other Market= Contract expiry date
NCNStrikePrice1	bigint	Strike price of option contract.	Equity & Futures

			contract= blank Repo= Repo Tenor Currency Option Contract= Strike Price * 10000 All other Option Contract= Strike Price * 100
NCNOptionType1	char(2)	This field contains the option type. CALL=CE PUT=PE	Equity & Futures= blank Repo= Settlement Type Option Contract = CE/PE
MWTRowNo1	bigint	Row internal no	4
MWTLegId1	bigint	No of legs	0
RowCount	Bigint	Total number of scrip/contract added by user.	2
MultiSelect	varchar(10)	More than one Scrip/contract added by user then "Y" otherwise "N".	Y
SessionKey	varchar(62)	Unique key for identify user session	2007100101-0420420920615521 0210
Thick Client	char(1)	Thick client	Y

1.1.97 Add Multiple Scrip/Contract in Market Watch Reply

Message Name	**AddArbitrageMarketWatchTokens**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **add more than one Contract/Script in market watch** request. The reply message the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum number of records**	**4**		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	Status of request	int	Status of request and data summary details	0||2|48
Record2	Column data	varchar	Current Market data1 for token	All other market format= 61||1|4|270|0|1009283|1|79.1 200|+|0.445|0.56|1|11:47:12 AM|79.1200|3|79.1200|3|0|.0 000|0|78.6750|79.1200|79.12

				00|79.1200|.0000|.0000|7.912|1|81.4900|76.7400|0|0|-79.1200|5416|.0000||EURINR18JULFUT||FUTCUR|1532649600|-0.01||||EURINR|1000|3655.00|BSE|Currency|1000|||27 Jul 2018|5416|0|0|270^1^4|0.00|.00|0.00|0.00|0.00|0.00|||||||.0000||||||EURINR18JULFUT||FUTCUR|1532649600|-0.01||||EURINR|1000|3655.00|BSE|Currency|1000|||27 Jul 2018|5416|0|0|270^1^4|0.00|.00|0.00|0.00|0.00|0.00|||||| For Repo= 61||1|9|2083|0|1609209|0|0.00|0|0.00|0.00|0||0.00|0|0.00|0|0|0.00|0|0.00|0.00|0.00|0.00|0.00|0.00|0|0|20.00|2.00|0|0|0| |0.00||CBAAAPSU1TO5|||1532908800|0.00|||||0|3658.00|BSE|Repo||||30 Jul 2018||||2083^1^9|0.00|0.00|0|0.00|0.00|0.00|||T0|7|CB|NT||0.00|0|0.00|0|0.00|0.00|0||CBAAAPSU1TO5|||1532908800|0.00|||||0|3658.00|BSE|Repo||||30 Jul 2018||||2083^1^9|0.00|0.00|0|0.00|0.00|0.00|||T0|7|CB|NT|
Record3	Column data	varchar	Current Market data2 for token	61||1|1|21643|-1|956905|0|0.00| |0.00|0.00|0||0.00|0|0.00|0|0|0.00|0|1000000.00|0.00|0.00|0.00|0.00|0.00|0.0|0|12000.00|8000.00|0|0|0| |0.00||001CSSL25|EQ||0|0.00||INE01F608017|F||1|-14176.00|BSE|Equity|||||||21643^1^1|0.00|0.00|0|0.00|0.00|0.00|||||||0.00||||||001CSSL25|EQ||0|0.00||INE01F608017|F||1|-14176.00|BSE|Equity|||||||21643^1^1|0.00|0.00|0|0.00|0.00|0.00||||||
Record4	Status of request	int	Status of request and data	0||2|5

			summary details	
Record5	Exchange and market details	bigint	Exchange and market details	111018|1|1|8913|1
Record6	Exchange and market details	bigint	Exchange and market details	113812|1|1|21643|1

Detail Description of Record 1: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of request	int	Successful=0 Failed=1	0
2	Error details	varchar	If field=1 then error details Otherwise blank	Blank
3	Number of records	int	Number of records	2
4	Blank	int	Blank	48

Detail Description of Record 2: Current Market Data1 for Token

Field No	Field Name	Type	Description	Values, meanings, Validations
1	MessageCode	bigint	Message Code	61
2	LogTime	bigint	Server Log time	e.g. 08:33:43 BSE all markets and NCDEX = blank All other markets = Logtime
3	Exchange	bigint	Exchange unique ID	For details Refer to Appendix section 1.1
4	Market	bigint	Market unique ID	For details Refer to Appendix section 1.1
5	Token	bigint	The token number of the Contract.This is internal token number received in Scrip/Contract Master.	e.g. 270
6	NSETOKEN	bigint	Exchange Instrument ID	BSE Equity Derivative, Currency and SLB = 0 or -1 BSE Commodity, ITP and NSE Currency = 0 or Exchange Instrument ID All other Markets= Exchange Instrument ID
7	BSETOKEN	bigint	Exchange Instrument ID	BSE Currency, ITP and

				NSE currency = 0 or Exchange Instrument ID NSE Equity, Derivative, NCDEX and MCX = 0 or -1 BSE all other markets = Exchange Instrument ID
8	VolumeTradedToday	bigint	The total quantity of a security traded on the current day.	10
9	LastTradedPrice	bigint	The price at which the last trade in a security has taken place.	79.675
10	NetChangeIndicator	varchar	This is a flag which indicates any change of the order price from the LTP. for increase="+" for decrease="-" For all other cases=Blank	"+"
11	NetChange	bigint	This field contains the net change between the closing price and the LTP.	1
12	NetChangePercentage	bigint	The net change percentage	1.27
13	LastTradedQuantity	bigint	The quantity at which the last trade took place in a security.	5
14	LastTradeTime	bigint	The time when the last trade took place in a security.	10:58:03(HH:MM:SS)
15	AverageTradePricer	bigint	The average price of all the trades in a security.	79.675
16	Number of Buy Orders Quantity1	bigint	Number of Best Buy Orders	e.g. 800
17	Price of Buy Orders Quantity1	bigint	The price of the best Buy order.	1517
18	TotalBuyQuantity	bigint	The total quantity of buy orders in a security.	e.g. 2400
19	Number of Sell Orders	bigint	Number of Best Sell	e.g. 400

	Quantity6		Orders	
20	Price of Buy Orders Quantity6	bigint	The price of the best Sell order.	1600
21	TotalSellQuantity	bigint	The total quantity of sell orders in a security.	800
22	ClosePrice	bigint	The closing price of a security/Contract.	78.675
23	OpenPrice	bigint	The open price of a security/Contract.	79.675
24	HighPrice	bigint	This field the highest trade price for a day.	79.675
25	LowPrice	bigint	The lowest trade price for a day.	79.675
26	YearlyLow	bigint	Yearly Low price for the scrip/Contract.	0
27	YearlyHigh	bigint	Yearly Highest Price for the scrip/Contract.	0
28	ValueTradedToday	bigint	The value of the security traded today in Lakhs.	7.96
29	NumberOfTradesToday	bigint	The total quantity of the security that has been traded today.	2
30	UpperCircuit	bigint	The daily upper price limit.	81.49
31	LowerCircuit	bigint	The daily lower price limit.	76.74
32	BuyExchange	bigint	NA	0
33	SellExchange	bigint	NA	0
34	AbsoluteDiff	bigint	Change in Price with respect to previous day close price.	-79.12
35	PercentageDiff	bigint	NA	NA
36	Underlying LTP	bigint	NA	
37	LastUpdateTime	bigint	Last Update time of Market data	e.g. 6:12 AM NSE Equity,Currency and MCX =LastUpdateTime All other Market =blank
38	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. EURINR18JULFUT, ACC
39	Series	bigint	Series ID	Equity= EQ/BE Repo= Security Type All other markets= blank

40	InstrumentType	varchar(10)	Instrument type	EQUITY = blank REPO= Repo Type All other Markets = Instrument Type
41	OEExpiryDate	bigint	This date is the actual last trading date of the Product (In seconds).	Equity contract= blank All other Market= Contract expiry date
42	OEStrikePrice	bigint	Strike price of option contract.	Equity & Futures contract= blank Repo= Repo Tenor Currency Option Contract= Strike Price * 10000 For all other Option Contract= Strike Price * 100
43	OEOptionType	char(2)	This field contains the option type. CALL= CE PUT= PE	Equity & Futures= blank Repo= Settlement Type Option Contract = CE/PE
44	ISINNumber	varchar(30)	ISIN number of security.	e.g. INE176A01028 BSE Equity = ISINNumber All other markets = Blank
45	BSEGroup	varchar(1)	Equity trading group	BSE Equity= A All other markets = blank
46	BSESymbol	varchar(20)	Unique symbol / Asset Code defined for each asset.	eg.: EURINR
47	BoardLot	bigint	The board lot quantity. The regular lot order quantity must be a multiple of this quantity.	1000
48	DaysToExpiry		No of days to expiry	3654
49	Source	bigint	Exchange unique ID	For details Refer to Appendix section 1.1
50	Market	bigint	Market unique ID	For details Refer to Appendix section 1.1
51	Multiplier	bigint	Lot size	e.g. 1000 BSE Currency & Derivative = Multiplier All other Markets =blank

52	PQFactor	bigint	Price Quatation Unit(Factor)	e.g. 10 GRMS BSE & MCX Commodity = PQFactor All other markets =blank
53	Trading Unit	bigint	Trading Unit	e.g. 1000 BSE & MCX Commodity = Trading Unit All other markets =blank
54	Expiry date	bigint	This date is the actual last trading date of the Product. DD-MMM-YY format	e.g. 25-Oct-18 Equity and BSE ITP contract= Blank All other Market= Contract expiry date
55	Open Interest	bigint	Open interest for a contract.	Blank or 5426
56	openInterestHigh	bigint	The open high interest value.	0
57	openInterestLow	bigint	The open low interest value.	0
58	SecurityKey	bigint	Security/Contract keys its combination of Token, Exchange and market.	270^1^4
59	Filler	filler	filler	0
60	Filler	filler	filler	0
61	Filler	filler	filler	0
62	Filler	filler	filler	0
63	Filler	filler	filler	0
64	Filler	filler	filler	0
65	Filler	filler	filler	filler
66	Underlying Asset	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. ALS BSE derivative = SymbolName All other markets=blank
67	SettlementType	varchar(2)	Repo Settlement type	T0 or T1 BSE Repo= SettlementType All other markets=blank
68	RepoTenure	bigint	Repo Tenor (In Days)	e.g. 4 BSE Repo= RepoTenure All other markets=blank
69	SecurityType	char(2)	Security type Only for REPO Market	CB or CD or CP BSE Repo= SecurityType

				All other markets=blank
70	Transferable	varchar(2)	T- Transferable /NT- Non Transferable security Only for REPO Market	T or NT BSE Repo= Transferable All other markets=blank
71	FutureLTP	bigint	Future LTP Only for REPO Market	The LTP of Future contract of BSE & NSE Derivative option contract All other Markets= blank
72	BorrowAMT	bigint	Repo Borrow amount Only for REPO Market	e.g. 0 Repo=Buy quantity All other markets=blank
73	BorrowRate	bigint	Repo borrow rate Only for REPO Market	e.g. 0 Repo=Quantity1 All other markets=Blank
74	LendAMT	bigint	Repo lend amount Only for REPO Market	e.g. 0 Repo=Price1 All other markets= Blank
75	LendRATE	bigint	Repo lend rate Only for REPO Market	e.g. 0 Repo=Quantity6 All other markets= Blank
76	LastTradeRate	bigint	Repo last trade rate Only for REPO Market	e.g. 0 Repo=Price6 All other markets= Blank
77	LastTradeAMT	bigint	Blank Only for REPO Market	e.g. 0 Repo=Last Trade Quantity All other markets=0
78	Filler	Filler	Filler	Filler
79	Symbol	varchar(20)	Unique symbol / Asset Code defined for each asset.	e.g. EURINR18JULFUT
80	Series	char(2)	Series ID	Equity=EQ/BE All other market=Blank
81	InstrumentType	varchar(50)	Instrument type	EQUITY= blank REPO= Repo Type All other Markets = Instrument Type
82	OEExpiryDate	bigint	This date is the actual last trading date of the Product	e.g. 25-Oct-18 Equity contract= NA All other Market= Contract expiry date
83	OEStrikePrice	bigint	Strike price of option contract.	Equity & Futures contract= blank Repo= Repo Tenor

				Currency Option Contract= Strike Price * 10000 All other Option Contract= Strike Price * 10000
84	OEOptionType	char(2)	This field contains the option type. CALL= CE PUT = PE	Equity & Futures= blank Repo= Settlement Type Option Contract = CE/PE
85	ISINNumber	varchar(30)	ISIN number of security.	e.g. INE176A01028 BSE Equity = ISINNumber All other markets = Blank
86	BSEGroup	varchar(1)	Equity trading group	Equity= A All other markets are blank
87	BSESymbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	Eg.: EURINR
88	BoardLot	bigint	The board lot quantity. The regular lot order quantity must be a multiple of this quantity.	e.g. 1000
89	DaysToExpiry	bigint	Number days to expiry.	e.g. 3654
90	Source	bigint	Exchange unique ID	For details Refer to Appendix section 1.1
91	Market	bigint	Market unique ID	For details Refer to Appendix section 1.1
92	Multiplier	bigint	Lot size	e.g. 1000 BSE Currency & Derivative = Multiplier All other Markets =blank
93	PQFactor	bigint	Product Quantity Factor	e.g. 10 GRMS BSE & MCX Commodity = PQFactor All other markets =blank
94	Trading Unit	bigint	Trading Unit	e.g. 1000 BSE & MCX Commodity = Trading Unit All other markets =blank
95	Expiry date	bigint	This date is the actual last trading date of the	e.g. 27-sep-18

			Product. DD-MMM-YY format	Equity and BSE ITP contract= Blank All other Market= Contract expiry date
96	Open Interest	bigint	The open interest value.	e.g. 5426 BSE and NSE Equity= Blank blank or PercentageDiff
97	openInterestHigh	bigint	The open high interest value.	e.g. 0 BSE Currency = openInterestHigh All other markets =blank
98	openInterestLow	bigint	The open low interest value.	e.g. 0 BSE Currency = openInterestLow All other markets =blank
99	SecurityKey	bigint	Security key	270^1^4
100	Filler	filler	filler	0
101	Filler	filler	filler	0
102	Filler	filler	filler	0
103	Filler	filler	filler	0
104	Filler	filler	filler	0
105	Filler	filler	filler	0
106	Filler	filler	filler	0
107	UnderlyingAsset	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. ALS BSE derivative = UnderlyingAsset All other markets=blank
108	SettlementType	varchar(2)	Repo Settlement type	T0 or T1 BSE Repo= SettlementType All other markets=blank
109	RepoTenure	bigint	Repo Tenor (In Days)	e.g. 4 BSE Repo= RepoTenure All other markets=blank
110	SecurityType	varchar(2)	Security type	CB or CD or CP BSE Repo= SecurityType All other markets=blank
111	Transferable	varchar(2)	T- Transferable /NT- Non Transferable security	T or NT BSE Repo= Transferable All other markets=blank

Detail Description of Record 3: Current Market Data2 for Token

Field NO	Field Name	Type	Description	Values, meanings, Validations
1	MessageCode	bigint	Message Code	e.g. 61
2	LogTime	bigint	Server Log time	e.g. 12:58:59 PM BSE all markets and NCDEX = blank All other markets = Logtime
3	Exchange	bigint	Exchange unique ID	For details Refer to Appendix section 1.1
4	Market	bigint	Market unique ID	For details Refer to Appendix section 1.1
5	Token	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master.	e.g. 21643
6	NSETOKEN	bigint	Exchange Instrument ID	BSE Equity Derivative, Currency and SLB = 0 or -1 BSE Commodity, ITP and NSE Currency = 0 or Exchange Instrument ID All other Markets= Exchange Instrument ID
7	BSETOKEN	bigint	Exchange Instrument ID	BSE Currency, ITP and NSE currency = 0 or Exchange Instrument ID NSE Equity, Derivative, NCDEX and MCX = 0 or -1 BSE all other markets = Exchange Instrument ID
8	VolumeTradedToday	bigint	The total quantity of a security traded on the current day.	e.g. 8
9	LastTradedPrice	bigint	The price at which the last trade in a security has taken place.	79.675 0 or Last Traded Price
10	NetChangeIndicator	varchar	This is a flag which indicates any change of the order price from the	

			LTP. for increase="+" for decrease="-" For all other cases=Blank	
11	NetChange	bigint	This field contains the net change between the closing price and the LTP.	e.g. 1
12	NetChangePercentage	bigint	The net change percentage	e.g. 1.27
13	LastTradedQuantity	bigint	The quantity at which the last trade took place in a security.	e.g. 5
14	LastTradeTime	bigint	The time when the last trade took place in a security.	e.g. 10:58:03(HH:MM:SS) Blank or Last trade time
15	AverageTradePrice	bigint	The average price of all the trades in a security.	79.675
16	Number of Buy Orders Quantity1	bigint	Number of Best Buy Orders	e.g. 800
17	Price of Buy Orders Quantity1	bigint	The price of the best Buy order.	1517
18	TotalBuyQuantity	bigint	The total quantity of buy orders in a security.	e.g. 2400
19	Number of Sell Orders Quantity6	bigint	Number of Best Sell Orders	e.g. 400
20	Price of Buy Orders Quantity6	bigint	The price of the best Sell order.	1600
21	TotalSellQuantity	bigint	The total quantity of sell orders in a security.	800
22	ClosePrice	bigint	The closing price of a security/Contract.	1000000
23	OpenPrice	bigint	The open price of a security/Contract.	79.675
24	HighPrice	bigint	This field the highest trade price for a day.	79.675
25	LowPrice	bigint	The lowest trade price for a day.	79.675
26	YearlyLow	bigint	Yearly Low price for the scrip/Contract.	e.g. 60.50
27	YearlyHigh	bigint	Yearly Highest Price for the scrip/Contract.	e.g. 90.50
28	ValueTradedToday	bigint	The value of the security traded today in Lakhs.	7.96
29	NumberOfTradesToday	bigint	The total quantity of the security that has been traded today.	e.g. 2
30	UpperCircuit	bigint	The daily upper price limit.	12000
31	LowerCircuit	bigint	The daily lower price limit.	8000
32	BuyExchange	bigint	NA	e.g. 0

33	SellExchange	bigint	NA	e.g. 0
34	Change in price	bigint	Change in Price with respect to previous day close price.	e.g. -79.12
35	PercentageDiff	bigint	NA	NA
36	Underlying LTP	bigint	NA	
37	LastUpdateTime	bigint	Last Update time of Market data	e.g. 6:12 AM NSE Equity,Currency and MCX =LastUpdateTime All other Market =blank
38	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. 001CSSL25
39	Series	bigint	Series ID	Equity=EQ/BE All other market=Blank
40	InstrumentType	varchar(10)	Instrument type	EQUITY= blank REPO= Repo Type All other Markets = Instrument Type
41	OEExpiryDate	bigint	This date(seconds) is the actual last trading date of the Product	e.g. 1540425600 Equity contract= NA All other Market= Contract expiry date
42	OEStrikePrice	bigint	Strike price of option contract.	Equity & Futures contract= blank Repo= Repo Tenor Currency Option Contract= Strike Price * 10000 For all other Option Contract= Strike Price * 100
43	OEOptionType	char(2)	This field contains the option type. CALL= CE PUT= PE	Equity & Futures= blank Repo= Settlement Type Option Contract = CE/PE
44	ISINNumber	varchar(30)	ISIN number of security.	e.g. INE01F608017 BSE Equity = ISINNumber All other markets = Blank
45	BSEGroup	varchar(1)	Equity trading group	BSE Equity= A All other markets =

				blank
46	BSESymbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	eg.: EURINR
47	BoardLot	bigint	The board lot quantity. The regular lot order quantity must be a multiple of this quantity.	e.g. 100
48	DaysToExpiry	bigint	No of days to expiry	e.g. 3654
49	Source	bigint	Exchange name	For details Refer to Appendix section 1.1
50	Market	bigint	Market name	For details Refer to Appendix section 1.1
51	Multiplier	bigint	Lot size	e.g. 1000 BSE Currency & Derivative = Multiplier All other Markets =blank
52	PQFactor	bigint	Price Quatation Unit(Factor)	e.g. 10 GRMS BSE & MCX Commodity = PQFactor All other markets =blank
53	Trading Unit	bigint	Trading Unit	e.g. 1000 BSE & MCX Commodity = Trading Unit All other markets =blank
54	Expiry date	bigint	This date is the actual last trading date of the Product. DD-MMM-YY format	e.g. 25-Oct-18 Equity and BSE ITP contract= Blank All other Market= Contract expiry date
55	Open Interest	bigint	Open interest for a contract.	e.g. 5426 Blank or Open interest
56	openInterestHigh	bigint	The open high interest value.	Blank or open Interest High
57	openInterestLow	bigint	The open low interest value.	Blank or open Interest low
58	ContractKey	bigint	Security/Contract keys its combination of Token, Exchange and market.	21643^1^1
59	Filler	filler	filler	0
60	Filler	filler	filler	0
61	Filler	filler	filler	0
62	Filler	filler	filler	0
63	Filler	filler	filler	0
64	Filler	filler	filler	0
65	Filler	filler	filler	filler

66	Underlying Asset	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. ALS BSE derivative = SymbolName All other markets=blank
67	SettlementType	varchar(2)	Repo Settlement type	T0 or T1 BSE Repo= SettlementType All other markets=blank
68	RepoTenure	bigint	Repo Tenor (In Days)	e.g. 4 BSE Repo= RepoTenure All other markets=blank
69	SecurityType	char(2)	Security type Only for REPO Market	CB or CD or CP BSE Repo= SecurityType All other markets=blank
70	Transferable	varchar(2)	T- Transferable /NT- Non Transferable security Only for REPO Market	T or NT BSE Repo= Transferable All other markets=blank
71	FutureLTP	bigint	Future LTP Only for REPO Market	The LTP of Future contract of BSE & NSE Derivative option contract All other Markets= blank
72	BorrowAMT	bigint	Repo Borrow amount Only for REPO Market	e.g. 0 Repo=Buy quantity All other markets=blank
73	BorrowRate	bigint	Repo borrow rate Only for REPO Market	e.g. 0 Repo=Quantity1 All other markets=Blank
74	LendAMT	bigint	Repo lend amount Only for REPO Market	e.g. 0 Repo=Price1 All other markets= Blank
75	LendRATE	bigint	Repo lend rate Only for REPO Market	e.g. 0 Repo=Quantity6 All other markets= Blank
76	LastTradeRate	bigint	Repo last trade rate Only for REPO Market	e.g. 0 Repo=Price6 All other markets= Blank
77	LastTradeAMT	bigint	Blank Only for REPO Market	e.g. 0 Repo=Last Trade Quantity All other markets=0
78	Filler	Filler	Filler	filler
79	Symbol(need to	varchar(20)	Unique symbol / Asset	e.g.

	discuss)		Code defined for each asset.	001CSSL25
80	Series	char(2)	Series ID	Equity= EQ/BE Repo= Security Type All other markets= blank
81	InstrumentType	varchar(10)	Instrument type	EQUITY= blank REPO= Repo Type All other Markets = Instrument Type
82	OEExpiryDate	bigint	This date is the actual last trading date of the Product	e.g. 25-Oct-18 Equity contract= NA All other Market= Contract expiry date
83	OEStrikePrice	bigint	Strike price of option contract.	Equity & Futures contract= blank Repo= Repo Tenor Currency Option Contract= Strike Price * 10000 All other Option Contract= Strike Price * 100
84	OEOptionType	char(2)	This field contains the option type. CALL: CE PUT : PE	Equity & Futures= blank Repo= Settlement Type Option Contract = CE/PE
85	ISINNumber	varchar(30)	ISIN number of security.	e.g. INE01F608017 BSE Equity = ISINNumber All other markets = Blank
86	BSEGroup	varchar(1)	Equity trading group	Equity= A/F All other markets are blank
87	BSESymbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	Eg.: EURINR
88	BoardLot	bigint	The board lot quantity. The regular lot order quantity must be a multiple of this quantity.	e.g. 1
89	DaysToExpiry	bigint	Number days to expiry.	e.g. 3654
90	Source	bigint	Exchange name	For details Refer to Appendix section 1.1
91	Market	bigint	Market name	For details Refer to

				Appendix section 1.1
92	Multiplier	bigint	Lot size	e.g. 1000 BSE Currency & Derivative = Multiplier All other Markets =blank
93	PQFactor	bigint	PQ Factor	e.g. 10 GRMS BSE & MCX Commodity = PQFactor All other markets =blank
94	Trading Unit	bigint	Trading Unit	e.g. 1000 BSE & MCX Commodity = Trading Unit All other markets =blank
95	Expiry date	bigint	This date is the actual last trading date of the Product. DD-MMM-YY format	eg: 27-sep-18 Equity and BSE ITP contract= Blank All other Market= Contract expiry date
96	Open Interest	bigint	The open interest value.	e.g. 5426 BSE and NSE Equity= Blank blank or PercentageDiff
97	openInterestHigh	bigint	The open high interest value.	e.g. 0 BSE Currency = openInterestHigh All other markets =blank
98	openInterestLow	bigint	The open low interest value.	e.g. 0 BSE Currency = openInterestLow All other markets =blank
99	SecurityKey	bigint	Security key	21643^1^1
100	Filler	filler	filler	0
101	Filler	filler	filler	0
102	Filler	filler	filler	0
103	Filler	filler	filler	0
104	Filler	filler	filler	0
105	Filler	filler	filler	0
106	Filler	filler	filler	filler
107	UnderlyingAsset	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. ALS BSE derivative = UnderlyingAsset All other markets=blank
108	SettlementType	varchar(2)	Repo Settlement type	T0 or T1

			Applicable only for REPO	BSE Repo= SettlementType All other markets=blank
109	RepoTenure	bigint	Repo Tenor (In Days) Applicable only for REPO	e.g. 4 BSE Repo= RepoTenure All other markets=blank
110	SecurityType	varchar(2)	Security type Applicable only for REPO	CB or CD or CP BSE Repo= SecurityType All other markets=blank
111	Transferable	varchar(2)	T- Transferable /NT- Non Transferable security Applicable only for REPO	T or NT BSE Repo= Transferable All other markets=blank

Detail Description of Record 4: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of request	int	Successful=0 Failed=1	0
2	Error details	varchar	If Field1= 1 then error details Otherwise blank	blank
3	Number of records	int	Number of records	2
4	Number of Column data	varchar	Number of Column data	5

Detail Description of Record 5: Exchange and Market Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Internal ID	bigint	Scrip/Contract Internal ID	109601
2	Exchange ID	bigint	Exchange ID	For details Refer to Appendix section 1.1
3	Segment ID	bigint	Market ID	For details Refer to Appendix section 1.1
4	Internal Token	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master.	270
5	RowState	bigint	Rowstate	1

Detail Description of Record 6: Exchange and Market Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Internal ID	bigint	Internal ID	113812
2	Exchange ID	bigint	Exchange ID	For details Refer to Appendix section 1.1
3	Segment ID	bigint	Market ID	For details Refer to

				Appendix section 1.1
4	Internal Token	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master	21643
5	RowState	bigint	RowState	1

1.1.98 Delete Scrip/Contract Request - HTTP

Message Name	**DeleteArbitrageMarketWatchTokens**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **delete Scrip/Contract.**

Field Name	Type	Description	Values, meanings, Validations
rowcount	bigint	RowCount	1
MWTID0	bigint	Scrip/Contract internal ID	62670
MWTROWSTATE0	bigint	RowState	1
SessionKey	varchar(62)	Unique key for identify user session	1201311534-022081592072072072092 08212214208
Thick Client	char(1)	Thick client	

1.1.99 Delete Scrip/Contract Request Reply - HTTP

Message Name	**DeleteArbitrageMarketWatchTokens**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **delete Scrip/Contract** request. The reply message contains the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum Number of Records**	**1**		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of Request	int	Successful=0 Failed=1	0
Record1:Field2	Message	varchar	Successful or Error message	Record Deleted Successfully

1.1.100 Order Gateway Connect Status Sent to Broadcast Gateway

Message Name	**RECEIVEORDERGATEWAY**
Type of Message	TCP Request
Description	This request message is sent by the TPS to BOW **when the user wants to send the status of the order gateway connected or not.There will be no response of this message. This is mainly required if User were connected to Order Gateway on TCP & then disconnects. On receipt of this message to Broadcast Gateway further Order/Trade confirmations messages will be sent on Broadcast TCP channel.**

Field No	Field Name	Type	Description	Values, meanings, Validations
1	RECEIVEORDER GATEWAY	varchar(25)	Receive Order Gateway Status	RECEIVEORDERG ATEWAY
2	Internal USID	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	16377
3	SessionKey	varchar(62)	Unique key for identify user session.	2124574344-04073078075024079079
4	Connection Type	varchar(1)	Order gateway connected and listening for order response=Y Order gateway disconnected & when listening for order response= N or Blank	N

1.1.101 Connect message for Broadcast

Message Name	**CONNECT Request**
Type of Message	TCP Request
Description	This request message is sent by the TPS to BOW when the user wants to **connect broadcast. Through this only connection channel will create. There is no response for this message.**

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Connect MarketWatch	varchar(10)	Open Market watch	CONNECT
2	Internal USID	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	16377
3	SessionKey	varchar(62)	Unique key for identify user session.	2124574344-04073078075024079079
4	Connection Type		Type of connection	TCP

5	filler	filler	filler	filler
6	filler	filler	filler	filler
7	filler	filler	filler	filler
8	Thick Client	char(1)	Thick client	Y
9	InteractiveMessageFlag	Char(1)	Set value Blank/'N' to get interactive messages through broadcast channel otherwise 'Y' to get interactive messages through Order Gateway	Blank/N – for Interactive message through broadcast Y—for interactive message through order Gateway

1.1.102 Touch Line (MarketWatch) Request

Message Name	**AddArbitrageMarketWatchTokens**
Type of Message	TCP Request
Description	This request message is sent by the TPS to the BOLTPLUS when the user wants to **add Contract/Script** in market watch.

Field no	Field Name	Type	Description	Values, meanings, Validations
1	Open MarketWatch	Varchar	Open Market watch	OPEN
2	Internal USID	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	16377
3	SessionKey	varchar(62)	Unique key for identify user session.	364133931-02100051105102106106
4	MarketWatchID	bigint	Unique Default Market Watch ID	8001
5	KeyIdentityFier	varchar	Combination of Internal token, Exchange ID and Market ID. Multiple Token can also subscribe with separator as ~.	8^1^3~ 3451^1^4~ 9031^1^1 Token^BSE^Commodity Token^BSE^Currency Token^BSE^EQUITY

1.1.103 Touch Line (MarketWatch) Response/Broadcast

Message Name	**AddArbitrageMarketWatchTokens**
Type of Message	TCP Response
Description	This is the reply message sent in response to **Touch line**. The reply message contains the status of the transaction after it was processed (i.e. **success or failure**).

Field No	Field Name	Type	Description	Values, meanings, Validations
1	MessageType	bigint	Message Type	e.g. 61
2	LogTime	bigint	Server Log time	e.g. 12:58:59 PM BSE all markets and NCDEX = blank All other markets = Logtime
3	Source	bigint	Exchange ID	e.g. 1 For details Refer to Appendix section 1.1
4	Market	bigint	Market ID	e.g. 4 For details Refer to Appendix section 1.1
5	TOKEN	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master.	e.g. 3451
6	NSETOKEN	bigint	Exchange Instrument ID	BSE Equity Derivative, Currency and SLB = 0 or -1 BSE Commodity, ITP and NSE Currency = 0 or Exchange Instrument ID All other Markets= Exchange Instrument ID
7	BSETOKEN	bigint	Exchange Instrument ID	BSE Currency, ITP and NSE currency = 0 or Exchange Instrument ID NSE Equity, Derivative, NCDEX and MCX = 0 or -1 BSE all other markets = Exchange Instrument ID
8	VolumeTradedToday	bigint	The total quantity of a security traded on the current day.	e.g. 10

9	LastTradedPrice	bigint	The price at which the latest trade in a security has taken place.	e.g. 80.0575
10	NetChangeIndicator	bigint	This is a flag which indicates any change of the order price from the LTP. for increase="+" for decrease="-" For all other cases=Blank	-
11	NetChange	bigint	This field contains the net change between the closing price and the LTP.	e.g. -0.79
12	NetChangePercentage	bigint	The net change percentage	e.g. -0.97
13	LastTradeQuantity	bigint	The quantity at which the last trade took place in a security.	e.g. 1
14	LastTradeTime	bigint	The time when the last trade took place in a security.	11:37:51 AM
15	AverageTradePrice	bigint	The average price of all the trades in a security.	e.g. 79.9427
16	Number of Buy Orders Quantity1	bigint	Number of Best Buy Orders	e.g. 800
17	Price of Buy Orders Quantity1	bigint	The price of the best Buy order.	1517
18	TotalBuyQuantity	bigint	The total quantity of buy orders in a security.	e.g. 2400
19	Number of Sell Orders Quantity6	bigint	Number of Best Sell Orders	e.g. 400
20	Price of Buy Orders Quantity6	bigint	The price of the best Sell order.	1600
21	TotalSellQuantity	bigint	The total quantity of sell orders in a security.	800
22	ClosePrice	bigint	The closing price of a security/Contract.	e.g. 80.8475
23	OpenPrice	bigint	The open price of a security/Contract.	e.g. 80.065
24	HighPrice	bigint	This field the highest trade price for a day.	e.g. 80.065
25	LowPrice	bigint	The lowest trade price for a day.	e.g. 79.665
26	YearlyLow	bigint	Yearly Low price for the	e.g. 0

			scrip/Contract.	
27	YearlyHigh	bigint	Yearly Highest Price for the scrip/Contract.	0
28	ValueTradedToday	bigint	The value of the security traded today in Lakhs.	e.g. 7.99 lacs
29	NumberOfTradesToday	bigint	The total quantity of the security that has been traded today.	e.g. 10
30	UpperCircuit	bigint	The daily upper price limit.	e.g. 82.46
31	LowerCircuit	bigint	The daily lower price limit.	e.g. 77.66
32	BuyExchange	bigint	NA	e.g. 0
33	SellExchange	bigint	NA	e.g. 0
34	ABSOLUTEDIFF	bigint	Change in Price with respect to previous day close price.	e.g. 79.6575
35	PERCENTAGEDIFF	bigint	NA	NA
36	UNDERLYINGLTP	bigint	NA	e.g. 0
37	LastUpdateTime	bigint	Last Update time of Market data	
38	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. EURINR18JULFUT
39	Series	bigint	Series ID	Equity= EQ/BE Repo= Security Type All other markets= blank
40	InstrumentType	varchar(10)	Instrument type	EQUITY = blank REPO= Repo Type All other Markets = Instrument Type
41	OEExpiryDate	bigint	This date is the actual last trading date of the Product (In seconds).	Equity contract= Blank All other Market= Contract expiry date
42	OEStrikePrice	bigint	Strike price of option contract.	Equity & Futures contract= blank Repo= Repo Tenor Currency Option Contract= Strike Price * 10000 For all other Option

				Contract= Strike Price * 100
43	OEOptionType	char(2)	This field contains the option type. CALL= CE PUT= PE	Equity & Futures=Blank Repo= Settlement Type Option Contract = CE/PE
44	ISINNumber	varchar(30)	ISIN number of security.	blank
45	BSEGroup	varchar(1)	Equity trading group	Equity= A All other markets are blank
46	BSESymbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	eg.: EURINR
47	BoardLot	bigint	The board lot quantity. The regular lot order quantity must be a multiple of this quantity.	1000
48	DaysToExpiry	bigint	No of days to expiry	3654
49	Source	bigint	Exchange unique ID	For details Refer to Appendix section 1.1
50	Market	bigint	Market unique ID	For details Refer to Appendix section 1.1
51	Multiplier	bigint	Lot size	1000
52	PQFactor	bigint	Price Quatation Unit(Factor)	Filler
53	Trading Unit	bigint	Trading Unit	Filler
54	Expiry date	bigint	This date is the actual last trading date of the Product. DD-MMM-YY format	e.g. 27-07-2018 Equity & Futures contract= Blank All other Market= Contract expiry date
55	Open Interest	bigint	The open interest value.	e.g. 5426 BSE and NSE Equity= Blank blank or PercentageDiff
56	openInterestHigh	bigint	The open high interest value.	0
57	openInterestLow	bigint	The open low interest value.	0
58	SecurityKey	bigint	Security key	270^1^4
59	Filler	filler	Filler	0
60	Filler	filler	Filler	0
61	Filler	filler	Filler	0
62	Filler	filler	Filler	0
63	Filler	filler	Filler	0
64	Filler	filler	Filler	0
65	Filler	filler	Filler	filler
66	UnderlyingAsset	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. ALS BSE derivative = UnderlyingAsset

				All other markets=blank
67	SettlementType	varchar(2)	Repo Settlement type (Applicable only for REPO)	T0 or T1 BSE Repo= SettlementType All other markets=blank
68	RepoTenure	bigint	Repo Tenor (In Days) (Applicable only for REPO)	e.g. 4 BSE Repo= RepoTenure All other markets=blank
69	SecurityType	varchar(2)	Security type (Applicable only for REPO)	CB or CD or CP BSE Repo= SecurityType All other markets=blank
70	Transferable	varchar(2)	T=Transferable NT= Non Transferable security (Applicable only for REPO)	T or NT BSE Repo= Transferable All other markets=blank
71	FutureLTP	varchar	Future LTP	The LTP of Future contract of BSE & NSE Derivative option contract All other Markets= blank
72	BorrowAMT	bigint	Repo Borrow amount Only for REPO Market	e.g. 0 Repo=Buy quantity All other markets=blank
73	BorrowRate	bigint	Repo borrow rate Only for REPO Market	e.g. 0 Repo=Quantity1 All other markets=Blank
74	LendAMT	bigint	Repo lend amount Only for REPO Market	e.g. 0 Repo=Price1 All other markets= Blank
75	LendRATE	bigint	Repo lend rate Only for REPO Market	e.g. 0 Repo=Quantity6 All other markets= Blank
76	LastTradeRate	bigint	Repo last trade rate Only for REPO Market	e.g. 0 Repo=Price6 All other markets= Blank

77	LastTradeAMT	bigint	Blank Only for REPO Market	e.g. 0 Repo=Last Trade Quantity All other markets=0

Note: - Once Touchline Request is successful means it is subscribed for Continious Touchline Broadcast for specified scrip/Contract. Any broadcast received for this token will be automatically sent to User. On Test Enviorment multiple orders needs to be placed for online updation of Touchline Broadcast.

1.1.104 Touch Line (MarketWatch) Broadcast Close Request

Message Name	**Remove/Close Market Watch**
Type of Message	TCP Request
Description	This message should be used while closing the Market Watch. Post this request Auto updation of Broadcast will be stopped as this is unsubscription Message for Touchline Broadcast.

Field No	Field Name	Type	Description	Values, meanings, Validations
1	MarketWatchCloseRemarks	varchar	MarketWatch close remarks	REMOVE
2	Internal USID	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	16377
3	SessionKey	varchar(62)	Unique key for identify user session	1874780706-02100051105102106206
4	MarketWatchID	bigint	Unique MarketWatch ID	8001

1.1.105 Add Indices Request -HTTP

Message Name	**ListConciseIndices**
Type of Message	HTTP Request
Description	This request message should sent by the TPS to the BOW for getiing **live prices of Indices.**

Field Name	Type	Description	Values, meanings, Validations
Keys	varchar	Current indices details separated by comma. index source^ index segment ^ Index name	1^1^S&P BSE SENSEX,2^1^Nifty Media (Note: Don't use '&' sign directly. Use URL encoding to convert '&' sign into

			%HH, where HH is the hexadecimal value of the byte)
Session Key	varchar(62)	Unique key for identify user session	1664280908-04252257254203258258
Thick Client	char(1)	Thick Client	Y

1.1.106 Add Indices Reply -HTTP

Message Name	ListConciseIndices
Type of Message	HTTP Response
Description	This is the reply message sent in response to List Index request. The reply message contains the status of the transaction after it was processed (i.e. **success or failure**) and details of the indices.

Response	Minimum Number of Records		HTTP Response	
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	Result of Request	varchar	Status of request and data summary details	0||72|2
Record2	Index details	varchar	Index details	1|38554.38|107.03
Record3	Index details	varchar	Index details	9084|2098.25|0.00

Detail Description of Record 1: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of Request	int	Successful=0 Failed=1	0
2	Error Details message	Varchar	If field= 1 then error message otherwise blank	Blank
3	Number of records with data & summary	bigint	Number of records	72
4	Filler	Int	Filler	2

Detail Description of Record 2: Index Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	CNID	bigint	Current indices internal ID. Details of ID and Indices name are available in Login Response.	1
2	CNvalue	bigint	Current indices value	38554.38

3	Indices change value	bigint	Currenct indices change value	107.03

Detail Description of Record 2: Index Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	CNID	bigint	Current indices internal ID. Details of ID and Indices name will be available in Login Response.	9084
2	CNValue	bigint	Current indices value	2098.25
3	Indices change value	bigint	Current indices change value	0.00

1.1.107 Add Indices Request-TCP

Message Name	**OPENCONCISEINDEX Request**
Type of Message	TCP Request
Description	This request message should sent by the TPS to the BOW for getiing **live prices of Indices online.** This is subscription request for getting continuos Live Indices update.

Field Name	Type	Description	Values, meanings, Validations
Open concise index	varchar(30)	Open concise index	OPENCONCISEINDEX
Internal USID	bigint.	Internal ID of the User who has logged in.	16377
Session Key	varchar(62)	Unique key for identify user session.	1664280908-04252257254203258258
CNID (Indices ID separated by record seperator)	varchar	Current indices ID	1~

1.1.108 Add Indices Reply-TCP

Message Name	**OPENCONCISEINDEX**
Type of Message	TCP Response
Description	This is the reply message sent in response to List Index Request. The reply message contains the status of the transaction after it was processed (i.e. **success or failure**) and current indices updates.

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Message ID	bigint	Message ID	69
2	Source ID	bigint	Exchange ID	1
3	CN Price	bigint	Current indices price	38554.38

4	CN change price	bigint	Current indices change price	107.03
5	Time	datetime(8)	TIme	05:30:26 AM

1.1.109 Market Depth Request - HTTP

Message Name	**GetMarketByPrice**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to see **Best 5 Market Depth** in the market for a particular security.

Field Name	Type	Description	Values, meanings, Validations
marketbypricesegment	bigint	Segment ID	For details Refer to Appendix section 1.1
marketbypricesource	bigint	Exchange ID	For details Refer to Appendix section 1.1
marketbypricetoken	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master	e.g. 270
CloseMBP	bigint	Blank	Blank
SessionKey	varchar(62)	Unique key for identify user session	2007100101-04204209206155210210
Thick Client	char(1)	Thick client	Y

1.1.110 Market Depth Reply - HTTP

Message Name	**GetMarketByPrice**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **Market Depth** request. The reply message contains the message id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum number of records	6		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	Status of request	int	Status of request and data summary details	0||1|70
Record 2	Column Headers	varchar	Column headers for Market Depth Response	MessageId|Time|Source|Segment|Token|NSEToken|BSEToken|Instrument Type|Symbol|Series|Expiry Date|Strike Price|Option Type|

				Vol. Traded Today| Last Trade Price| Net Change Indicator| Net Price Change| Net Percentage Change| Last Trade Qty| Last Trade Time| Avg Trade Price|Buy Qty| Buy Price|Buy Order|Buy Qty| Buy Price|Buy Order|Buy Qty| Buy Price|Buy Order|Buy Qty| Buy Price|Buy Order|Buy Qty| Buy Price|Buy Order|Buy Qty| Sell Price|Sell Order| Sell Qty| Sell Price|Sell Order| Sell Qty|Sell Price| Sell Order|Sell Qty|Sell Price| Sell Order|Sell Qty|Sell Price| SellOrder|Total Buy Qty| Total Sell Qty|Close Price| Open Price|High Price| Low Price|52 Low|52 High| Value Traded Tdy| Number Of Trades|UpperCircuit| LowerCircuit|BUYAVGPRICE |SELLAVGPRICE |LastUpdateTime|Total Trade Value|DPR|OpenInterest|CA
Record 3	Column Types*	varchar	Denotes default visibility, alignemnt, and data type of the data column	SRNO|SRDO|SRNO|SRNO| SRNO| SRNO|SRNO|SRAO|SRAO|S RAO| SRDO|SRNO|SRAO|SRNO| SRNO| SRAO|SRNO|SRNO|SRNO| SRDO| SRNO|SRNO|SRNO|SRNO| SRNO| SRNO|SRNO|SRNO|SRNO| SRNO| SRNO|SRNO|SRNO|SRNO| SRNO| SRNO|SRNO|SRNO|SRNO| SRNO| SRNO|SRNO|SRNO|SRNO| SRNO| SRNO|SRNO|SRNO|SRNO| SRNO| SRNO|SRNO|SRNO|SRNO|

				SRNO| SRNO|SRNO|SRNO|SRNO| SRNO| SRNO|SRNO|SRNO|SRNO| SRNO| SRAO|SRNO|SRAO|SRNO|SRAO
Record 4	Column Widths	int	Width of the data column	0|0|0|0|0|0|0|0|80|80|80| 80|80|80|80|80|80|80|80|80| 80|80|80|80|80|80|80|80|80| 80|80|80|80|80|80|80|80|80| 80|80|80|80|80|80|80|80|80| 80|80|80|80|80|80|80|80|80| 80|80|80|80|80|80|80|80|80| 80|80|80|80|80
Record 5	Column Positions	int	Position of the data column	1|2|3|4|5|6|7|8|9|10|11|12|13| 14|15|16| 17|18|19|20|21|22|23|24|25|26|27|28| 29|30|31|32|33|34|35|36|37|38|39|40| 41|42|43|44|45|46|47|48|49|50|51|52| 53|54|55|56|57|58|59|60|61|62|63|64| 65|66|67|68|69|70
Record 6	Column Data	varchar	Data per Column header	|0|1|2|34|0|833174|FUTSTK| ACCL||1540425600|-0.00|XX|800|1535.50|-|-4.90|-0.32|400|12:11:20 PM|1535.30|400|1535.10|1|400|1535.05|1|800|1535.00|2|400|1500.00|1|400|1398.00|1|400|1535.55|1|400|1545.00|1|400|1550.00|1|400|1570.00|1|400|1580.00|1|2400|2000|1540.40|1535.10|1535.50|1535.10|0|0|12.28|2|16944000|13863500|||05:30:00 AM|122800000000.00|1386.35-1694.4|0||1|1|1|

Detail Description of Record 1: Status of Request and Data Summary Details

Field Name	Type	Description	Values, meanings, Validations	Field Name
1	Status of request	int	Successful=0 Failed=1	0
2	Error Details	Varchar	If field= 1 then Error message Otherwise blank	blank

3	Number of records with data & summary	Number of records	Number of records	1
4	Number of Columns data	int	Number of columns headers	70

Detail Description of Record 2: Column Header

Field No	Field Name	Type	Description	Values, meanings, Validations
1	MessageId	bigint	Message ID	e.g. 3908790 BSE Equity,Derivative, Commodity,Currency and MCX= Blank All other markets= Message ID
2	Time	bigint	NA	0
3	Source	bigint	Exchange ID	For details Refer to Appendix section 1.1
4	Segment	bigint	Market ID	For details Refer to Appendix section 1.1
5	Token	bigint	The token number of the Contract.This is internal token number received in Scrip/Contract Master	34
6	NSEToken	bigint	Exchange Instrument ID	BSE Equity,Derivative, Commodity,Currency, and SLB= 0 or -1 All other markets= Exchange instrument ID
7	BSEToken	bigint	Exchange Instrument ID	NSE Equity,Derivative, MCX and NCDEX= 0 or -1 All other markets= Exchange instrument ID

8	Instrument Type	varchar(10)	Instrument Type	EQUITY= blank REPO = Repo Type All other Markets = Instrument Type
9	Symbol	varchar(20)	Unique symbol defined for each asset	ACCL
10	Series	char(2)	Series ID	Equity=EQ/BE All other market=Blank
11	Expiry Date	bigint	This date(seconds) is the actual last trading date of the Product	e.g. 1540425600 Equity contract= blank All other Market= Contract expiry date
12	Strike Price	bigint	Strike price of option contract.	Equity & Futures contract= blank Repo = Repo Tenor Currency Option Contract= Strike Price * 10000 All other Market= Strike Price*100
13	Option Type	char(2)	This field contains the option type. CALL= CE PUT = PE	Equity & Futures= blank Repo= Settlement Type Option Contract = CE/PE
14	Vol. Traded Today	bigint	The total quantity of the security/Contract that has been traded today.	800
15	Last Trade Price	bigint	The price at which the latest trade in a security has taken place.	1535.50
16	Net Change Indicator	varchar	This is a flag which indicates any change of the order price from the LTP. for increase="+" for decrease="-" For all other cases=Blank	-
17	Net Price Change	bigint	The net change between the closing price and the LTP.	-4.9

18	Net Percentage Change	bigint	The net change percentage.	-0.32
19	Last Trade Qty	bigint	The quantity at which the last trade took place in a security/Contract.	400
20	Last Trade Time	bigint	The time when the last trade took place in a security/Contract.	12:11:10(HH:MM:SS)
21	Avg Trade Price	bigint	The average price of all the trades in a security/Contract.	1535.30
22	Buy Qty	bigint	Number of Best buys quantity1.	400
23	Buy Price	bigint	The price at which the order is placed for Best Buy1 order.	1535.10
24	Buy Order	bigint	Number of Best Buy orders1	1
25	Buy Qty	bigint	Number of Best buys quantity2.	400
26	Buy Price	bigint	The price at which the order is placed for Best Buy2 order.	1535.05
27	Buy Order	bigint	Number of Buy orders2	1
28	Buy Qty	bigint	Number of Best buys quantity3.	800
29	Buy Price	bigint	The price at which the order is placed for Best Buy3 order.	1535
30	Buy Order	bigint	Number of Buy orders3	2
31	Buy Qty	bigint	Number of Best buys quantity4.	400
32	Buy Price	bigint	The price at which the order is placed for Best Buy4 order.	1500
33	Buy Order	bigint	Number of Buy orders4	1
34	Buy Qty	bigint	Number of Best buys quantity5.	400
35	Buy Price	bigint	The price at which the order is placed for Best Buy5 order.	1398
36	Buy Order	bigint	Number of Buy orders5	1
37	Sell Qty	bigint	Number of Best sells quantity1.	400
38	Sell Price	bigint	The Best price1 at which the Sell order is placed.	1535.55
39	Sell Order	bigint	Best Sell order quantity1.	1
40	Sell Qty	bigint	Number of Best sells quantity2.	400
41	Sell Price	bigint	The Best price2 at which the Sell order is placed.	1545
42	Sell Order	bigint	Sell order quantity2	1
43	Sell Qty	bigint	Number of Best sells quantity3.	400
44	Sell Price	bigint	The Best price3 at which the Sell order is placed.	1550
45	Sell Order	bigint	Sell order quantity3	1
46	Sell Qty	bigint	Number of Best sells quantity4.	400
47	Sell Price	bigint	The Best price at which the Sell order4 is placed.	1570
48	Sell Order	bigint	Sell order quantity4	1
49	Sell Qty	bigint	Number of Best sells quantity5.	400
50	Sell Price	bigint	The Best price5 at which the	1580

Goto Index

			Sell order is placed.	
51	SellOrder	bigint	Sell order quantity5	1
52	Total Buy Qty	bigint	The total quantity of buy orders in a security.	2400
53	Total Sell Qty	bigint	The total quantity of buy orders in a security.	2000
54	Close Price	bigint	The closing price of a security/Contract.	1540.4
55	Open Price	bigint	The open price of a security.	1535.1
56	High Price	bigint	The highest traded price for a day.	1535.5
57	Low Price	bigint	This field contains the lowest trade's price for a day.	1535.1
58	52 Low	bigint	The lowest price that a stock has traded at during year.	0
59	52 High	bigint	The highest price that a stock has traded at during year.	0
60	Value Traded Tdy	bigint	The value of the security traded today in Lacs.	12.28 lacs
61	Number Of Trades	bigint	The total quantity of the security/Contract that has been traded today.	2
62	UpperCircuit	bigint	The daily upper price limit.	16944000
63	LowerCircuit	bigint	The daily lower price limit.	13863500
64	BuyAvgPrice	bigint	The average buy price of the scrip/Contract for a day.	
65	SellAvgPrice	bigint	The average Sell price of the scrip/Contract for a day.	
66	LastUpdateTime	bigint	The last time this record was modified.	5:30:00 AM
67	Total Trade Value	bigint	The total value of trades for a day in Rs.	760000000
68	DPR	bigint	Daily Order price range	1386.35-1694.4
69	OpenInterest	bigint	The open interest value.	0
70	CA	bigint	NA	
71	Filler	bigint	Blank	0
72	Filler	bigint	blank	1
73	Filler	bigint	blank	1
74	Filler	bigint	blank	1
75	Filler	bigint	blank	1

1.1.111 Market Picture (Best Five) Request/Broadcast

Message Name	**GetMarketByPrice**
Type of Message	TCP Request
Description	This request message is sent by the TPS to the BOW Broadcast Server to show best five buy and sell orders in market depth window.

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Open Market by price	varchar	Open Market depth	OPENMBP
2	Internal USID	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	16377
3	SessionKey	varchar(62)	Unique key for identify user session	1649526918-02181132186183187187
4	KeyIdentifier	varchar	Key identifier-Combination of Internal token,Exchange ID and Market ID	3451^1^4 Token^BSE^Currency #### Broadcast Receiver

1.1.112 Market Picture (Best Five) Response

Message Name	**GetMarketByPrice**
Type of Message	TCP Response
Description	This is the reply message sent in response to **Market Picture (Best Five) request**. The reply message contains the status of the transaction after it was processed (i.e. **success or failure**). This is one time reply for GetMarketByPrice Request.

Field No	Field Name	Type	Description	Values, meanings, Validations
1	MessageType	bigint	Message Type	e.g. 61
2	LogTime	bigint	Server Log time	e.g. 12:58:59 PM BSE all markets and NCDEX = blank All other markets = Logtime
3	Source	bigint	Exchange ID	e.g. 1 For details Refer to Appendix section 1.1
4	Market	bigint	Market ID	e.g. 4 For details Refer to Appendix section 1.1
5	TOKEN	bigint	This field contains the token number of the Contract.This	e.g. 3451

			is internal token number received in Scrip/Contract Master.	
6	NSETOKEN	bigint	Exchange Instrument ID	BSE Equity Derivative, Currency and SLB = 0 or -1 BSE Commodity, ITP and NSE Currency = 0 or Exchange Instrument ID All other Markets= Exchange Instrument ID
7	BSETOKEN	bigint	Exchange Instrument ID	BSE Currency, ITP and NSE currency = 0 or Exchange Instrument ID NSE Equity, Derivative, NCDEX and MCX = 0 or -1 BSE all other markets = Exchange Instrument ID
8	VolumeTradedToday	bigint	The total quantity of a security traded on the current day.	e.g. 10
9	LastTradedPrice	bigint	The price at which the latest trade in a security has taken place.	e.g. 80.0575
10	NetChangeIndicator	bigint	This is a flag which indicates any change of the order price from the LTP. for increase="+" for decrease="-" For all other cases=Blank	-
11	NetChange	bigint	This field contains the net change between the closing price and the LTP.	e.g. -0.79
12	NetChangePercentage	bigint	The net change percentage	e.g. -0.97
13	LastTradeQuantity	bigint	The quantity at which the last trade took place in a security.	e.g. 1

14	LastTradeTime	bigint	The time when the last trade took place in a security.	11:37:51 AM
15	AverageTradePrice	bigint	The average price of all the trades in a security.	e.g. 79.9427
16	Number of Buy Orders Quantity1	bigint	Number of Best Buy Orders	e.g. 800
17	Price of Buy Orders Quantity1	bigint	The price of the best Buy order.	1517
18	TotalBuyQuantity	bigint	The total quantity of buy orders in a security.	e.g. 2400
19	Number of Sell Orders Quantity6	bigint	Number of Best Sell Orders	e.g. 400
20	Price of Buy Orders Quantity6	bigint	The price of the best Sell order.	1600
21	TotalSellQuantity	bigint	The total quantity of sell orders in a security.	800
22	ClosePrice	bigint	The closing price of a security/Contract.	e.g. 80.8475
23	OpenPrice	bigint	The open price of a security/Contract.	e.g. 80.065
24	HighPrice	bigint	This field the highest trade price for a day.	e.g. 80.065
25	LowPrice	bigint	The lowest trade price for a day.	e.g. 79.665
26	YearlyLow	bigint	Yearly Low price for the scrip/Contract.	e.g. 0
27	YearlyHigh	bigint	Yearly Highest Price for the scrip/Contract.	0
28	ValueTradedToday	bigint	The value of the security traded today in Lakhs.	e.g. 7.99 lacs
29	NumberOfTradesToday	bigint	The total quantity of the security that has been traded today.	e.g. 10
30	UpperCircuit	bigint	The daily upper price limit.	e.g. 82.46
31	LowerCircuit	bigint	The daily lower price limit.	e.g. 77.66
32	BuyExchange	bigint	NA	e.g. 0
33	SellExchange	bigint	NA	e.g. 0
34	ABSOLUTEDIFF	bigint	Change in Price with respect	e.g. 79.6575

			to previous day close price.	
35	PERCENTAGEDIFF	bigint	NA	NA
36	UNDERLYINGLTP	bigint	NA	e.g. 0
37	LastUpdateTime	bigint	Last Update time of Market data	
38	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. EURINR18JULFUT
39	Series	bigint	Series ID	Equity= EQ/BE Repo= Security Type All other markets= blank
40	InstrumentType	varchar(10)	Instrument type	EQUITY = blank REPO= Repo Type All other Markets = Instrument Type
41	OEExpiryDate	bigint	This date is the actual last trading date of the Product. (in seconds)	Equity contract= NA All other Market= Contract expiry date
42	OEStrikePrice	bigint	Strike price of option contract.	Equity & Futures contract= blank Repo= Repo Tenor Currency Option Contract= Strike Price * 10000 For all other Option Contract= Strike Price * 100
43	OEOptionType	char(2)	This field contains the option type. CALL= CE PUT= PE	Equity & Futures=Blank Repo= Settlement Type Option Contract = CE/PE
44	ISINNumber	varchar(30)	ISIN number of security.	blank
45	BSEGroup	varchar(1)	Equity trading group	Equity= A All other markets are blank
46	BSESymbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	eg.: EURINR
47	BoardLot	bigint	The board lot quantity. The regular lot order quantity must be a multiple of this quantity.	1000
48	DaysToExpiry	bigint	No of days to expiry	3654
49	Source	bigint	Exchange unique ID	For details Refer to

				Appendix section 1.1
50	Market	bigint	Market unique ID	For details Refer to Appendix section 1.1
51	Multiplier	bigint	Lot size	1000
52	PQFactor	bigint	Price Quatation Unit(Factor)	Filler
53	Trading Unit	bigint	Trading Unit	Filler
54	Expiry date	bigint	This date is the actual last trading date of the Product. DD-MMM-YY format	e.g. 27-07-2018 Equity & Futures contract= Blank All other Market= Contract expiry date
55	Open Interest	bigint	The open interest value.	e.g. 5426 BSE and NSE Equity= Blank blank or PercentageDiff
56	openInterestHigh	bigint	The open high interest value.	0
57	openInterestLow	bigint	The open low interest value.	0
58	SecurityKey	bigint	Security key	270^1^4
59	Filler	filler	Filler	0
60	Filler	filler	Filler	0
61	Filler	filler	Filler	0
62	Filler	filler	Filler	0
63	Filler	filler	Filler	0
64	Filler	filler	Filler	0
65	Filler	filler	Filler	filler
66	UnderlyingAsset	varchar(30)	Unique symbol / Asset Code defined for each asset.	e.g. ALS BSE derivative = UnderlyingAsset All other markets=blank
67	SettlementType	varchar(2)	Repo Settlement type (Applicable only for REPO)	T0 or T1 BSE Repo= SettlementType All other markets=blank
68	RepoTenure	bigint	Repo Tenor (In Days) (Applicable only for REPO)	e.g. 4 BSE Repo= RepoTenure All other markets=blank
69	SecurityType	varchar(2)	Security type (Applicable only for REPO)	CB or CD or CP BSE Repo= SecurityType All other markets=blank
70	Transferable	varchar(2)	T=Transferable	T or NT

Goto Index

			NT= Non Transferable security (Applicable only for REPO)	BSE Repo= Transferable All other markets=blank
71	FutureLTP	varchar	Future LTP	The LTP of Future contract of BSE & NSE Derivative option contract All other Markets= blank
72	BorrowAMT	bigint	Repo Borrow amount Only for REPO Market	e.g. 0 Repo=Buy quantity All other markets=blank
73	BorrowRate	bigint	Repo borrow rate Only for REPO Market	e.g. 0 Repo=Quantity1 All other markets=Blank
74	LendAMT	bigint	Repo lend amount Only for REPO Market	e.g. 0 Repo=Price1 All other markets= Blank
75	LendRATE	bigint	Repo lend rate Only for REPO Market	e.g. 0 Repo=Quantity6 All other markets= Blank
76	LastTradeRate	bigint	Repo last trade rate Only for REPO Market	e.g. 0 Repo=Price6 All other markets= Blank
77	LastTradeAMT	bigint	Blank Only for REPO Market	e.g. 0 Repo=Last Trade Quantity All other markets=0

1.1.113 Market Picture (Best Five) Broadcast

Message Name	**GetMarketByPrice**
Type of Message	TCP Response
Description	This is the reply message sent in response to **Market Picture (Best Five) request**. This Best Five message will receive continuos broadcast if any changes in Best Five. User will received this broadcast till GetMarketByPrice Close (Unsubscription) message is not sent.

Field No	Field Name	Type	Description	Values, meanings, Validations
1	MESSAGETYPE	bigint	Message Type	60
2	LOGTIME	bigint	The time when the message was	5:30:00 AM

			generated by the trading system host.	
3	Source	bigint	Exchange ID	For details Refer to Appendix section 1.1
4	Market	bigint	Market ID	For details Refer to Appendix section 1.1
5	Token	bigint	The token number of the Contract.This is internal token number received in Scrip/Contract Master	e.g. 376
6	NSEToken	bigint	Exchange Instrument ID	BSE Equity,Derivative, Commodity,Currency, and SLB= 0 or -1 All other markets= Exchange instrument ID
7	BSEToken	bigint	Exchange Instrument ID	NSE Equity,Derivative, MCX and NCDEX= 0 or -1 All other markets= Exchange instrument ID
8	VolumeTradedTODAY	bigint	The total quantity of a security/Security traded on the current day.	41118
9	LastTradedPrice	bigint	The price at which the latest trade in a security has taken place.	Blank
10	NetChangeIndicator	varchar	This is a flag which indicates any change of the order price from the LTP. for increase="+" for decrease="-" For all other cases=Blank	Blank
11	NetChannge	bigint	The net change between the closing price and the LTP.	Blank
12	NetChangePercentage	bigint	The net change percentage	Blank
13	LastTradeQuantity	bigint	The quantity at which the last trade took place in a security.	1
14	LastTradeTime	bigint	The time when the last trade took place in a security.	4:39:07 PM

15	AverageTradePrice	bigint	The time when the last trade took place in a security.	Blank
16	Quantity1	bigint	Number of Best buys quantity1.	3490
17	Price1	bigint	The price at which the order is placed for Best Buy1 order.	1350.15
18	NumberOFOrders1	bigint	Number of Best Buy1 orders	1
19	Quantity2	bigint	Number of Best buys quantity2.	5000
20	Price2	bigint	The price at which the order is placed for Best Buy2 order.	1349.45
21	NumberOFOrders2	bigint	Number of Best Buy2 orders	1
22	Quantity3	bigint	Number of Best buys quantity3.	1
23	Price3	bigint	The price at which the order is placed for Best Buy3 order.	1342.05
24	NumberOFOrders3	bigint	Number of Best Buy3 orders	1
25	Quantity4	bigint	Number of Best buys quantity4.	3
26	Price4	bigint	The price at which the order is placed for Best Buy4 order.	1342
27	NumberOFOrders4	bigint	Number of Best Buy4 orders	3
28	Quantity5	bigint	Number of Best buys quantity5.	10
29	Price5	bigint	The price at which the order is placed for Best Buy5 order.	1320
30	NumberOFOrders5	bigint	Number of Best Buy5 orders	10
31	Sell Quantity6	bigint	Number of Best Sell quantity6.	4861
32	Price6	bigint	The price at which the order is placed for Best Sell6 order.	1352.2
33	NumberOFOrders6	bigint	Number of Best Sell6 orders	1
34	Sell Quantity7	bigint	Number of Best Sell quantity7.	5000
35	Price7	bigint	The price at which the order is placed for Best Sell7 order.	1353.25
36	NumberOFOrders7	bigint	Number of Best Sell7 orders	1
37	Sell Quantity8	bigint	Number of Best Sell quantity8.	2
38	Price8	bigint	The price at which the order is placed for Best Sell8 order.	1400
39	NumberOFOrders8	bigint	Number of Best Sell8 orders	2
40	Sell Quantity9	bigint	Number of Best Sell quantity9.	0
41	Price9	bigint	The price at which the order is placed for Best Sell9 order.	0
42	NumberOFOrders9	bigint	Number of Best Sell9 orders	0
43	Sell Quantity10	bigint	Number of Best Sell quantity10.	0
44	Price10	bigint	The price at which the order is placed for Best Sell10 order.	0
45	NumberOFOrders10	bigint	Number of Best Sell10 orders	0
46	TotalBuyQuantity	bigint	The total quantity of buy orders in a security.	8505
47	TotalSellQuantity	bigint	The total quantity of sell orders in a security.	9863
48	ClosePrice	bigint	The closing price of a security/Contract.	1351.15

49	OpenPrice	bigint	The open price of a security/Contract.	
50	HighPrice	bigint	This field the highest trade price for a day.	
51	LowPrice	bigint	The lowest trade price for a day.	
52	YearlyLow	bigint	Yearly Low price for the scrip/Contract.	
53	YearlyHigh	bigint	Yearly Highest Price for the scrip/Contract.	
54	ValueTradedToday	bigint	The total quantity of a security traded on the current day.	555
55	NumberOFTradesToday	bigint	The total quantity of the security that has been traded today.	1875
56	UpperCircuit	bigint	The daily upper price limit.	Blank
57	LowerCircuit	bigint	The daily lower price limit.	Blank
58	BuyAvgPrice	bigint	The average buy price of all the security/Contract.	Blank
59	SellAvgPrice	bigint	The average sell price of all the security/Contract.	Blank
60	LastUpdateTime	bigint	Last traded time	5:30:00 AM
61	TotalTradedValue	bigint	The value of the security/Contract traded today in Lacs.	55.5
62	DailyPriceRange	bigint	Order Daily Price Range	1213.2-1482.7
63	OpenIntrest	bigint	The open high interest value.	0
64	CA	bigint	CALevel This field should contain the Corporate Action Level. For messages coming sent from TWS, it should be zero.	NA
65	BoardLot	bigint	The board lot quantity. The regular lot order quantity must be a multiple of this quantity.	1
66	NUMERATOR	bigint	Value to be used for deriving the trade Value.	1
67	DENOMENATOR	bigint	Value to be used for deriving the trade Value.	1
68	IndicativeQTYPrice	varchar	Indicative Quantity Price	0.0@0

1.1.114 Market Picture (Best Five) Close Request

Message Name	GetMarketByPrice
Type of Message	TCP Request
Description	This is the request message sent **to close Market Picture (Best Five) request**. This is unsubcription request for BestFive Broadcast. Post this message Continous BestFive Broadcast will stopped.

Field No	Field Name	Type	Description	Values, meanings, Validations
1	CloseMarketDepth	varchar(30)	Close Market depth(Close Broadcast connection)	CLOSEMBP
2	Internal USID	bigint	Internal ID of the User who has logged in. This ID will be provided by BOW Server in Logon response.	16377
3	SessionKey	varchar(62)	Unique key for identify user session	1182469650-04274279276225280280
4	KeyIdentifier	varchar	Key identifier-Combination of Internal token,Exchange ID and Market ID	3451^1^4 Token^ExchangeID^MarketID

1.1.115 Market Statistics Request

Message Name	**ListNEW_MarketStatistics**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **know statistics of the individual contacts.**

Field Name	Type	Description	Values, meanings, Validations
Exchange	varchar(2)	Exchange ID	For details Refer to Appendix section 1.1
Market	varchar(2)	Market ID	For details Refer to Appendix section 1.1
Symbol	varchar(30)	Symbol name for which statistics to be fetch. If required for all statistics records then Set “Blank”.	ACC
InstrumentName	varchar(10)	Instrument name for which statistics to be fetch. If required for all statistics records then Set “Blank”.	e.g. OPTFUT EQUITY= NA REPO= Repo Type All other Markets = Instrument Type
ExpiryDate	bigint	This date is the actual last trading date in seconds of the Product (In Seconds).	e.g. 1542240000 Equity contract= NA All other Market= Contract expiry date
PerChange	numeric(20,2)	Change in Price with respect to previous day	0
TradedVolume	bigint	This field should contain the Traded quantity.	0
OpenIntrest	bigint	NA	0
APIDefaultScreenField	varchar(1)	For fix column header= Y Otherwise parameter not	Y

		required.	
SessionKey	varchar(62)	Unique key for identify user session	801376505-02251199
Thick Client	char(1)	Thick client	Y

1.1.116 Market Statistics Reply

Message Name	ListNEW_MarketStatistics
Type of Message	HTTP Response
Description	This is the reply message sent in response to **see statistics of the individual contacts request**. The reply message contains the market statics and the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum Number of Records	6		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	int	Status of request and data summary details	0||5|17
Record2	Column Headers	varchar	Column Headers	SrNo|Exchange|Market|Token|Symbol|Series|InstrumentName|ExpiryDate|StrikePrice|OptionType|LTP|%Change|PriceChg|Volume|Value|NoOfTrades|OpenIntrest
Record3	Column Types*	varchar	Denotes default visibility, alignemnt, and data type of the data column	SRNO|SLAO|SLNO|SLNO|SLNO|SLNO|SLNO|SLAO|SLNO|SLNO|SLNO|SLNO|SLNO|SLAO|SLNO|SLNO|SLNO
Record4	Column Widths	int	Width of the data column	0|40|55|50|80|30|60|80|80|30|80|80|80|80|80|80|80
Record5	Column Positions	int	Position of the data column	1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|17
Record6	Column Data	varchar	Data per order	1482|BSE|Commodities|1482 |GOLD| |OPTFUT|Nov 26 2018 |31100|CE|1000.0000|0.00|-1540.0000|0|0.0000|0|1

Detail Description of Record 1: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of request	int	Successful=0 Failed=1	0

2	Error Details	Varchar	If field= 1 then Error message Otherwise blank	Blank
3	Number of Records with data and summary	varchar	Number of Records with data and summary	5
4	Number of Column headers.	varchar	Number of Column headers.	17

Detail Description of Record2: Column Header

Field No	Field Name	Type	Description	Values, meanings, Validations
1	SrNo	bigint	The token number of the Contract.This is internal token number received in Scrip/Contract Master	1482
2	Exchange	varchar(10)	Exchange name	e.g. BSE For details Refer to Appendix section 1.1
3	Market	varchar(20)	Market name	e.g. Commodities For details Refer to Appendix section 1.1
4	Token	bigint	The token number of the Contract.This is internal token number received in Scrip/Contract Master	1482
5	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	ACC,ALS,GOLD,EURINR etc.
6	Series	char(2)	Unique Series Id	Equity= EQ/BE Repo= Security Type All other markets= blank
7	InstrumentName	varchar(10)	Instrument Type	EQUITY = blank REPO= Repo Type All other Markets = Instrument Type
8	ExpiryDate	datetime(8)	This date is the actual last trading date of the Product. DD-MMM-YY Format	Equity = blank All other Market= Contract expiry date
9	StrikePrice	bigint	Strike price of option contract.	Equity & Futures contract= blank Repo= Repo Tenor Currency Option Contract= Strike Price * 10000 All other Option Contract= Strike Price *

				100
10	OptionType	char(2)	This field contains the option type. CALL= CE PUT = PE	Equity & Futures= blank Repo= Settlement Type Option Contract = CE/PE
11	LTP	bigint	The last trade price of a security.	31910.00
12	%Change	bigint	Change in Price with respect to previous day.	-0.48%
13	PriceChg	bigint	The net change between the closing price and the LTP.	-154
14	Volume	bigint	Total quantity.	4095
15	Value	bigint	Total Traded value.	130839.85
16	NoOfTrades	bigint	The number of times the structure MARKET WATCH BROADCAST is repeated.	400
17	OpenIntrest	bigint	Open interest for a contract.	13371

1.1.117 Most Active by Volume Request

Message Name	ListMostActiveByVolume
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to know the **highest volume over a given period**.

Field Name	Type	Description	Values, meanings, Validations
MVOEXID	bigint	Exchange ID for which record to be fetch. If required for all exchanges records then set “0”	For details Refer to Appendix section 1.1
MVOSegmentId	bigint	Segment ID for which record to be fetch. If required for all the all segments records then set “0” Equity=1, Future=2, Option=3,Commodity Future =5,Commodity Option=6	0
MVOMarket	bigint	Market ID for which record to be fetch. If required for all markets records then set “0”	4
Group	varchar(6)	Equity trading group	Equity: A/E All other markets=blank
Top	bigint	List of Top 100 highest volume.	100
High	bigint	Range can be specified. Blank to be sent if no High price to mentioned.	5219

Low	bigint	Range can be specified. Blank to be sent if no Low price to mentioned.	4900
APIDefaultScreenField	varchar(1)	For fix column header= Y Otherwise parameter not required.	Y
SessionKey	varchar(62)	Unique key for identify user session	801376505-02251199
Thick Client	char(1)	Thick client	Y

1.1.118 Most Active by Volume Response

Message Name	**ListMostActiveByVolume**
Type of Message	HTTP Response
Description	This is the reply message sent in response to the **highest volume over a given period request**. The reply message contains the highest volume and the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum Number of Records**	**6**		
Field Name	**Type**	**Description**	**Values, meanings, Validations**	**Field Name**
Record1	Status of request	int	Status of request	0||5|23|
Record2	Column Headers	varchar	Column Headers	Exchange|Market|Segment|Token|NseToken|BseToken|InstrumentName|Symbol|Series|ExpiryDate|StrikePrice|OptionType|Volume|Value|AvgPrice|LTP|OpenPrice|ClosePrice|High|Low|%change|NoOfTrades|PriceChg
Record3	Column Types*	varchar	Denotes default visibility, alignemnt, and data type of the data column	SLAO|SLAO|SLAO|SRNO|SRNO|SRNO|SLNO|SLNO|SLNO|SLNO|SRAO|SLAO|SRNO|SRDO|SRAO|SRAO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO
Record4	Column Widths	int	Width of the data column	80|80|80|0|0|0|0|80|80|0|0|0|80|80|80|80|80|80|80|80|80|80|80
Record5	Column Positions	int	Position of the data column	1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|17|18|19|20|21|22|23
Record6	Column Data	varchar	Data as per Column header	BSE|Currency|FUTURE|100152|69027|1006250|FUTCUR|CASTROLIND| |Aug 30 2008 |220|PE|999001|679320000.0000|67.9999|68.0000|67.8625|67.8625|68.0000|67.8625|0.20|1000|0.1375

Detail Description of Record 1: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of request	int	Successful=0 Failed=1	0
2	Error Details	varchar	If Field1= 1 then Error message Otherwise Blank.	Blank
3	Total Number of Records	bigint	Total Number of Records	5
4	Number of Column headers	bigint	Number of Column headers	23

Detail Description of Record 2: Column Header

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Exchange	varchar(10)	Exchange name	For details Refer to Appendix section 1.1
2	Market	varchar(20)	Market name	Currency
3	Segment	varchar(50)	Unique numeric Identifier for Product.	FUTURE
4	Token	bigint	The token number of the Contract.This is internal token number received in Scrip/Contract Master .	656
5	NseToken	bigint	Exchange Instrument ID	NSE all markets, BSE commodity, MCX and NCDEX= Exchange Instrument ID All other markets= blank
6	BseToken	bigint	Exchange Instrument ID	BSE all markets,NSE currency= Exchange Instrument ID All other markets= blank
7	InstrumentName	varchar(10)	InstrumentName	e.g. FUTCUR EQUITY = blank REPO = Repo Type All other Markets = Instrument Type

8	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	CASTROLIND
9	Series	bigint	Series ID	Equity= EQ/BE Repo= Security Type All other markets= blank
10	ExpiryDate	datetime(8)	This date is the actual last trading date of the Product. MMM DD YYYY FORMAT	e.g. Dec 18 2018 Equity contract= blank All other Market= Contract expiry date
11	StrikePrice	bigint	Strike price of option contract.	Equity & Futures contract= blank Repo= Repo Tenor Currency Option Contract= Strike Price * 10000 All other Option Contract= Strike Price * 100
12	OptionType	char(2)	This field contains the option type. CALL= CE PUT = PE	Equity & Futures= NA Repo = Settlement Type Option Contract = CE/PE
13	Volume	bigint	The total quantity.	100340
14	Value	bigint	Total traded value.	413820000000
15	AvgPrice	bigint	The average price of all the trades in a security/Contract.	4124.18
16	LTP	bigint	The price at which the last trade in a security/Contract has taken place.	4152
17	OpenPrice	bigint	The open price of a security/Contract.	4582
18	ClosePrice	bigint	The close price of a security/Contract.	4300
19	High	bigint	Range can be specified. Blank to be sent if no High price to mentioned.	4522
20	Low	bigint	Range can be specified. Blank to be sent if no Low price to mentioned.	4124
21	%change	bigint	Change in Price with respect to previous day.	6.56

22	NoOfTrades	bigint	The total quantity of the security/Contract that has been traded today.	1017
23	PriceChg	bigint	The net change between the closing price and the LTP.	282

1.1.119 Most Active by Value Request

Message Name	**ListMostActiveByValue**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to know stocks **with turnover highest trading during the day.**

Field Name	Type	Description	Values, meanings, Validations
MVOEXID	bigint	Exchange ID for which record to be fetch. If required for all exchanges records then set "0"	For details Refer to Appendix section 1.1
MVOSegmentId	bigint	Segment ID for which record to be fetch. If required for all the all segments records then set "0" Equity=1, Future=2, Option=3,Commodity Future =5,Commodity Option=6	0
MVOMarket	bigint	Market ID for which record to be fetch. If required for all markets records then set "0"	0
Group		Blank	Blank
Top	bigint	List of Top 100 highest trading price.	20
High	bigint	Range can be specified. Blank to be sent if no High price to mentioned.	1200
Low	bigint	Range can be specified. Blank to be sent if no Low price to mentioned.	999
APIDefaultScreenField	varchar(1)	For fix column header= Y Otherwise parameter not required.	Y
SessionKey	varchar(62)	Unique key for identify user session	801376505-02251199
Thick Client	char(1)	Thick client	Y

1.1.120 Most Active by Value Reply

Message Name	ListMostActiveByValue
Type of Message	HTTP Response
Description	This is the reply message sent in response to stocks **with turnover highest trading during the day** request. The reply message contains the highest trade value stock and the status of the transaction after it was processed. (I.e. **success or failure**).

Response	Minimum Number of Records	6		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	Status of request	int	Status of request and data summary details	0||6|23|
Record2	Column Headers	varchar	Blank	Exchange|Market|Segment|Token|NseToken|BseToken|InstrumentName|Symbol|Series|ExpiryDate|StrikePrice|OptionType|Volume|Value|AvgPrice|LTP|OpenPrice|ClosePrice|High|Low|%change|NoOfTrades|PriceChg
Record3	Column Types*	varchar	Denotes default visibility, alignemnt, and data type of the data column	SLAO|SLAO|SLAO|SRNO|SRNO|SRNO|SLNO|SLNO|SLNO|SLNO|SRAO|SLAO|SRNO|SRDO|SRAO|SRAO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO
Record4	Column Widths	int	Width of the data column	80|80|80|0|0|0|0|80|80|0|0|0|80|80|80|80|80|80|80|80|80|80|80
Record5	Column Positions	int	Position of the data column	1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|17|18|19|20|21|22|23
Record6	Column Data	varchar	Data as per Column header order	BSE|Commodities|COMMODITY FUTURE|7|1400004|1400004|FUTCOM|GOLD| |Aug 3 2018 |||10001|294020000000.0000|29399.0900|28500.0000|29400.0000|29378.0000|29400.0000|28500.0000|-2.99|1002|-878.0000

Detail Description of Record 1: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of request	int	Successful=0 Failed=1	0
2	Error details	Varchar	If Field1=1 then Error message Otherwise blank.	Blank

3	Total Number of Records	varchar	Total Number of Records	e.g. 6
4	Number of Column headers	varchar	Number of Column headers	e.g. 23

Detail Description of Record 2: Column Header

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Exchange	varchar(10)	Exchange name	BSE For details Refer to Appendix section 1.1
2	Market	varchar(20)	Market name	Commodities
3	Segment	varchar(50)	Unique numeric Identifier for Product.	COMMODITY FUTURE
4	Token	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master.	7
5	NseToken	bigint	Exchange Instrument ID	NSE all markets, BSE commodity, MCX and NCDEX= Exchange Instrument ID All other markets= blank
6	BseToken	bigint	Exchange Instrument ID	BSE all markets,NSE currency= Exchange Instrument ID All other markets= blank
7	InstrumentName	varchar(10)	InstrumentName	FUTCOM EQUITY= Blank REPO= Repo Type All other Markets = Instrument Type
8	Symbol	varchar(30)	Unique symbol defined for each asset.	GOLD
9	Series	char(2)	Series ID	Equity= EQ/BE Repo= Security Type All other markets= blank
10	ExpiryDate	datetime(8)	This date is the actual last trading date of the Product. MMM DD YYYY	e.g. Dec 18 2018 Equity contract= blank All other Market= Contract expiry date
11	StrikePrice	bigint	Strike price of option contract.	Equity & Futures contract= blank Repo= Repo Tenor

				Currency Option Contract= Strike Price * 10000 All other Option Contract= Strike Price * 100
12	OptionType	char(2)	This field contains the option type. CALL= CE PUT = PE	Equity & Futures= NA Repo = Settlement Type Option Contract = CE/PE
13	Volume	bigint	This field contain the total quantity.	10001
14	Value	bigint	This field contain the Total traded Value.	294020
15	AvgPrice	bigint	This field contains the average price of all the trades in a security/Contract.	29399.09
16	LTP	bigint	The price at which the last trade in a security/Contract has taken place.	28500
17	OpenPrice	bigint	This field contains the open price of a security/Contract.	29400
18	ClosePrice	bigint	This field contains the close price of a security/Contract.	29378
19	High	bigint	Range can be specified. Blank to be sent if no High price to mentioned.	29400
20	Low	bigint	Range can be specified. Blank to be sent if no Low price to mentioned.	28500
21	%change	bigint	Change in Price with respect to previous day.	0.2
22	NoOfTrades	bigint	The total quantity of the Contract/security that has been traded today	1002
23	PriceChg	bigint	This field contains the net change between the closing price and the LTP.	-878

1.1.121 Top Gainer Request

Message Name	ListTopGainer
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to know **Top Gainers.**

Field Name	Type	Description	Values, meanings, Validations
TGEXID	bigint	Exchange ID for which record to be fetch. If required for all exchanges records then set "0"	For details Refer to Appendix section 1.1
TGSegmentId	bigint	Segment ID for which record to be fetch. If required for all the all segments records then set "0" Equity=1, Future=2, Option=3,Commodity Future =5,Commodity Option=6	0
TGMarket	bigint	Market ID for which record to be fetch. If required for all markets records then set "0"	For details Refer to Appendix section 1.1
Group	char(2)	Equity trading group	e.g. A/E All other markets= blank
Top	bigint	List of Top 100 highest trading price.	100
High	bigint	Range can be specified. Blank to be sent if no High price to mentioned.	73.3625
Low	bigint	Range can be specified. Blank to be sent if no Low price to mentioned.	71
APIDefaultScreenField	varchar(1)	For fix column header= Y Otherwise parameter not required.	Y
SessionKey	varchar(62)	Unique key for identify user session	801376505-02251199
Thick Client	char(1)	Thick client	Y

1.1.122 Top Gainer Reply

Message Name	ListTopGainer
Type of Message	HTTP Response
Description	This is the reply message sent in response to **Top gainers** request.The reply message contain the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum Number of Records	6		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	Status of request	int	Status of request and data summary details	0||20|23|
Record2	Column Headers	varchar	Blank	Exchange|Market|Segment|Token|NseToken|BseToken|InstrumentName|Symbol|Series|ExpiryDate|StrikePrice|OptionType|Volume|Value|AvgPrice|LTP|OpenPrice|ClosePrice|

				High|Low|%change|NoOfTrades|PriceChg
Record3	Column Types*	varchar	Denotes default visibility, alignemnt, and data type of the data column	SLAO|SLAO|SLAO|SRNO|SRNO|SRNO|SLNO|SLNO|SLNO|SLNO|SRAO|SLAO|SRNO|SRDO|SRAO|SRAO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO
Record4	Column Widths	int	Width of the data column	80|80|80|0|0|0|0|80|80|0|0|0|80|80|80|80|80|80|80|80|80|80|80
Record5	Column Positions	int	Position of the data column	1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|17|18|19|20|21|22|23
Record6	Column Data	varchar	Data as per Column header order	BSE|Currency|FUTURE|100151|69026|1006249|FUTCUR|CASTROLIND| |Aug 30 2008 |220|CE|999000|709290000.0000|71.0000|71.0000|71.0000|67.9200|71.0000|71.0000|4.53|999|3.0800

Detail Description of Record 1: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of request	int	Successful=0 Failed=1	0
2	Error details	Varchar	If field1= 1 then Error message Otherwise blank	Blank
3	Total Number of Records	varchar	Total Number of Records	20
4	Number of Column headers	varchar	Number of Column headers	23

Detail Description of Record 2: Column Header

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Exchange	varchar(10)	Exchange name	For details Refer to Appendix section 1.1
2	Market	varchar(20)	Market name	e.g. Currency For details Refer to Appendix section 1.1
3	Segment	varchar(50)	Unique numeric Identifier for Product.	FUTURE
4	Token	bigint	The token number of the Contract.This is internal token number received in Scrip/Contract Master.	e.g. 100151

5	NseToken	bigint	Exchange Instrument ID	NSE all markets, BSE commodity, MCX and NCDEX= Exchange Instrument ID All other markets= blank
6	BseToken	bigint	Exchange Instrument ID	BSE all markets,NSE currency= Exchange Instrument ID All other markets= blank
7	InstrumentName	varchar(10)	InstrumentName	EQUITY= blank REPO= Repo Type All other Markets = Instrument Type
8	Symbol	varchar	Unique symbol defined for each asset.	CASTROLIND
9	Series	char	Series ID	Equity= EQ/BE Repo= Security Type All other markets= blank
10	ExpiryDate	datetime(8)	This date is the actual last trading date of the Product. MMM DD YYYY	e.g. Dec 27 2008 Equity contract= blank All other Market= Contract expiry date
11	StrikePrice	bigint	Strike price of option contract.	Equity & Futures contract= blank Repo= Repo Tenor Currency Option Contract= Strike Price * 10000 All other Option Contract= Strike Price * 100
12	OptionType	char(2)	This field contains the option type. CALL= CE PUT = PE	Equity,Futures= NA Repo = Settlement Type Option Contract = CE/PE

13	Volume	bigint	This field contain the total quantity.	999000
14	Value	bigint	This field contain the Total traded value.	709290000
15	AvgPrice	bigint	This field contains the average price of all the trades in a security/Contract.	71
16	LTP	bigint	The price at which the last trade in a security/Contract has taken place.	71
17	OpenPrice	bigint	This field contains the open price of a security/Contract.	71
18	ClosePrice	bigint	This field contains the close price of a security/Contract.	67.92
19	High	bigint	Range can be specified. Blank to be sent if no High price to mentioned.	73.256
20	Low	bigint	Range can be specified. Blank to be sent if no Low price to mentioned.	71
21	%change	bigint	Percentage Change in Price with respect to previous day.	4053
22	NoOfTrades	bigint	The total quantity of the Contract/security that has been traded today	999
23	PriceChg	bigint	This field contains the net change between the closing price and the LTP.	3.08

1.1.123 Top Loser Request

Message Name	**ListTopLoser**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to know **Top Losers.**

Field Name	Type	Description	Values, meanings, Validations
TLEXID	bigint	Exchange ID for which record to be fetch. If required for all exchanges records then set “0”	For details Refer to Appendix section 1.1
TLSegmentId	bigint	Segment ID for which record to be fetch. If required for all the all segments records then set “0” Equity=1, Future=2, Option=3,Commodity Future =5,Commodity Option=6	0
TLMarket	bigint	Market ID for which record to be	For details Refer to

		fetch. If required for all markets records then set “0”	Appendix section 1.1
Group	Blank	Blank	Blank
Top	bigint	List of Top 100 Losers.	20
High	bigint	Range can be specified. Blank to be sent if no High price to mentioned.	1200
Low	bigint	Range can be specified. Blank to be sent if no Low price to mentioned.	900
APIDefaultScreenField	varchar(1)	For fix column header= Y Otherwise parameter not required.	Y
SessionKey	varchar(62)	Unique key for identify user session	801376505-02251199
Thick Client	char(1)	Thick client	Y

1.1.124 Top Loser Reply

Message Name	**ListTopLoser**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **Top Losers** request.The reply message contain the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum Number of Records**	**6**		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	Status of request	int	Status of request and data summary details	0||20|23|
Record2	Column Headers	varchar	Blank	Exchange|Market|Segment|Token|NseToken|BseToken|InstrumentName|Symbol|Series|ExpiryDate|StrikePrice|OptionType|Volume|Value|AvgPrice|LTP|OpenPrice|ClosePrice|High|Low|%change|NoOfTrades|PriceChg
Record3	Column Types*	varchar	Denotes default visibility, alignemnt, and data type of the data column	SLAO|SLAO|SLAO|SRNO|SRNO|SRNO|SLNO|SLNO|SLNO|SLNO|SRAO|SLAO|SRNO|SRDO|SRAO|SRAO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO
Record4	Column Widths	int	Width of the data column	80|80|80|0|0|0|0|80|80|0|0|0|80|80|80|80|80|80|80|80|80|80|80

Record5	Column Positions	int	Position of the data column	1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|17|18|19|20|21|22|23
Record6	Column Data	varchar	Data as per Column header order	BSE|Equity|EQUITY|3480||532667||SUZLON|EQ||||60|1500.0000|25.0000|25.0000|25.0000|21.3000|25.0000|25.0000|17.37|2|3.7000

Detail description of Record 1: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of request	int	Successful=0 Failed	0
2	Error details	varchar	If field1= error message otherwise blank	Blank
3	Total Number of Records	varchar	Total Number of Records	20
4	Number of Column headers	varchar	Number of Column headers	23

Detail Description of Record 2: Column Header

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Exchange	varchar(10)	Exchange name	For details Refer to Appendix section 1.1
2	Market	varchar(20)	Market name	For details Refer to Appendix section 1.1
3	Segment	varchar(50)	Unique numeric Identifier for Product	EQUITY
4	Token	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master.	3311
5	NseToken	bigint	Exchange Instrument ID	NSE all markets, BSE commodity, MCX and NCDEX= Exchange Instrument ID All other markets= blank
6	BseToken	bigint	Exchange Instrument ID	BSE all markets,NSE currency= Exchange Instrument ID

				All other markets= blank
7	InstrumentName	varchar(10)	InstrumentName	EQUITY= blank REPO= Repo Type All other Markets = Instrument Type
8	Symbol	varchar(30)	Unique symbol defined for each asset.	Blank
9	Series	char(2)	Series ID	Equity= EQ/BE Repo= Security Type All other markets= blank
10	ExpiryDate	datetime(8)	This date is the actual last trading date of the Product. MMM DD YYYY	e.g. Dec 27 2008 Equity contract= blank All other Market= Contract expiry date
11	StrikePrice	bigint	Strike price of option contract.	Equity & Futures contract= blank Repo= Repo Tenor Currency Option Contract= Strike Price * 10000 All other Option Contract= Strike Price * 100
12	OptionType	char(2)	This field contains the option type. CALL= CE PUT = PE	Equity & Futures= NA Repo = Settlement Type Option Contract = CE/PE
13	Volume	bigint	This field contain the total quantity.	350
14	Value	bigint	This field contain the Total price.	121000000
15	LTP	bigint	This field contains the average price of all the trades in a security/Contract.	32000
16	OpenPrice	bigint	This field contains the open price of a security/Contract.	35537.25
17	ClosePrice	bigint	This field contains the close price of a security/Contract.	35537.25
18	High	bigint	High Price	35537.5
19	Low	bigint	Low Price	32000
20	%change	bigint	Percentage Change in Price	-9.95

			with respect to previous day.	
21	NoOfTrades	bigint	The total quantity of the Contract/security that has been traded today	14
22	PriceChg	bigint	This field contains the net change between the closing price and the LTP.	-3537.25
23	LTP	bigint	This field contains the last trading price of security/Contract.	32000

1.1.125 Market Movement Request

Message Name	**ListMarketMovement**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to know **Behaviour of the market.**

Field Name	Type	Description	Values, meanings, Validations
SBQEXID	bigint	Exchange ID for which record to be fetch. If required for all exchanges records then set "0"	For details Refer to Appendix section 1.1
SBQSegmentId	bigint	Unique numeric Identifier for Product	1
SBQToken	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master.	34
SBQMarket	bigint	Market ID for which record to be fetch. If required for all markets records then set "0"	For details Refer to Appendix section 1.1
SBQSymbol	varchar(30)	Symbol name for which record to be fetch. If required all symbol records then set "Blank"	
RoundInterval	bigint	Number of interval in minutes. By default 10min.	e.g. 10 1 min to 60min
APIDefaultScreenField	varchar(1)	For fix column header= Y Otherwise parameter not required.	Y
SessionKey	varchar(62)	Unique key for identify user session	801376505-02251199
Thick Client	char(1)	Thick client	Y

1.1.126 Market Movement Reply

Message Name	ListMarketMovement
Type of Message	HTTP Response
Description	This is the reply message sent in response to **Behaviour of the market** request. The reply message contains the high, low and open prices and the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum Number of Records	6		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	Status of request	int	Status of request and data summary details	0||0|15|
Record2	Column Headers	varchar	Blank	Symbol Identifier|Time Slot|Open Price|High Price|Low Price|Close Price|Change|% Change|Traded Volume|Total Traded Volume|Traded Value|Total Traded Value|Avg. Trade Price|OI Change|Open Interest
Record3	Column Types*	varchar	Denotes default visibility, alignemnt, and data type of the data column	SLAO|SLAO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO
Record4	Column Widths	int	Width of the data column	80|80|80|80|80|80|80|80|80|80|80|80|80|80|80
Record5	Column Positions	int	Position of the data column	1|2|3|4|5|6|7|8|9|10|11|12|13|14|15
Record6	Column data	varchar	Data as per Column header	GOLD 03 Aug 2018|2018-07-31 11:10:00.0|29378.0000|29378.0000|29371.0000|29378.0000|0.0000|0.0000|34|35|998630.0000|1028.0000|29371.4706|0|0

Detail Description of Record 1: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of request	int	Successful=0 Failed=1	0
2	Error Details	varchar	If Field1= 1 then error message otherwise	Blank

3	Number of Records	varchar	Number of Records	0
4	Number of Records with data and summary	varchar	Number of Records with data and summary	15

Detail Description of Record 2: Column Header

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Symbol Identifier	varchar(50)	Unique symbol defined for each asset with expiry date.	GOLD 03 Aug 2018
2	Time Slot	datetime(8)	Time Slot	7/31/2018 11:10
3	Open Price	bigint	The open price of a security/Contract during that period.	29378
4	High Price	bigint	This field the highest trade price during that period.	29378
5	Low Price	bigint	The lowest trade price during that period.	29371
6	Close Price	bigint	The closing price of a security/Contract during that period	29378
7	Change Price	char	Change in Price with respect to previous day.	0
8	% Change	varchar	This field contains the net change between the closing price and the LTP.	0
9	Traded Volume	char	The quantity of the Contract/security that has been traded today.	34
10	Total Traded Volume	bigint	The total quantity of the Contract/security that has been traded today.	35
11	Traded Value	bigint	The value of the Contract/security that has been traded today.	998630
12	Total Traded Value	char	The Total value of the Contract/security that has been traded.	1028
13	Avg. Trade Price	bigint	The average price of the contract/security that has been traded.	29371.4706
14	OI Change	bigint	The change in value of open interest.	0
15	Open Interest	bigint	Open interest for a contract/Security.	0

1.1.127 52 Week High-Low Request

Message Name	**ListNEW_52_WEEK_HighLow**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **Know highest price that stock has traded** at during the previous year**.**

Field Name	Type	Description	Values, meanings, Validations
Action (High/Low price)	Varchar(30)	Describe the highest and lowest price for particular market.	HIGH/LOW
HLEXID	bigint	Exchange ID for which record to be fetch.	For details Refer to Appendix section 1.1
HLMARKETID	bigint	Market ID for which record to be fetch. If required for all markets records then set "0"	For details Refer to Appendix section 1.1
HLSEGMENTID	bigint	Segment ID for which record to be fetch. If required for all the all segments records then set "0" Equity=1, Future=2, Option=3,Commodity Future =5,Commodity Option=6	For details Refer to Appendix section 1.1
APIDefaultScreenField	varchar(1)	For fix column header= Y Otherwise parameter not required.	Y
SessionKey	varchar(62)	Unique key for identify user session	801376505-02251199
Thick Client	char(1)	Thick client	Y

1.1.128 52 Week High-Low Response

Message Name	**ListNEW_52_WEEK_HighLow**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **Know highest price that stock has traded** at during the previous year request**.** The reply message contains the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum number of records	6		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	Status of Request	int	Successful=0 Failed=1	0||21|20
Record2	Column Headers	varchar	Column Headers	SrNo|Exchange|Market|Segment|Token|NseToken|BseToken|InstrumentName|

				Symbol|Series|ExpiryDate|StrikePrice|OptionType|LTP|OpenPrice|ClosePrice|High|Low|%change|PriceChg
Record3	Column Types*	varchar	Denotes default visibility, alignemnt, and data type of the data column	SRNO|SLAO|SLNO|SLNO|SRNO|SRNO|SRNO|SLAO|SLNO|SLNO|SLNO|SRNO|SLNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO
Record4	Column Widths	int	Width of the data column	0|80|100|120|0|80|80|100|100|50|110|80|50|80|80|80|80|80|80|80
Record5	Column Positions	int	Position of the data column	1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|17|18|19|20
Record6	Column Data	varchar	Data as per Column header	1|BSE|Currency|FUTURE|5656|40696|1010116|OPTIDX|NIFTY| |Dec 27 2008|6300|PE|66.0025|65.9950|62.4625|66.0025|65.9950|5.67|3.5400

Description of Record 1: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of Request	int	Successful=0 Failed=1	0
2	Error Details	varchar	If Field= 1 then error Message otherwise blank	Blank
3	Number of records	varchar	Number of records	10
4	Number of Records with data and summary	varchar	Number of Records with data and summary	20

Description of Record 2: Column Header

Field No	Field Name	Type	Description	Values, meanings, Validations
1	SrNO	bigint	Record No	1
2	Exchange	varchar(10)	Exchange Name	For details Refer to Appendix section 1.1
3	Market	varchar(20)	Market Name	For details Refer to Appendix section 1.1

4	Segment	varchar(50)	Unique numeric Identifier for Product.	FUTURE
5	Token	Bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master.	5656
6	NseToken	bigint	Exchange Instrument ID	NSE all markets, BSE commodity, MCX and NCDEX= Exchange Instrument ID All other markets= blank
7	BseToken	bigint	Exchange Instrument ID	BSE all markets,NSE currency= Exchange Instrument ID All other markets= blank
8	InstrumentName	varchar(10)	Instrument Name	EQUITY= blank REPO= Repo Type All other Markets = Instrument Type
9	Symbol	varchar(30)	Unique symbol defined for each asset.	ACC,ALS,GOLD,EURINR
10	Series	char(2)	Blank	Equity=EQ All other markets=blank
11	ExpiryDate	datetime(8)	This date is the actual last trading date of the Product. MMM DD YYYY	e.g. Dec 27 2008 Equity contract= blank All other Market= Contract expiry date
12	StrikePrice	bigint	Strike price of option contract.	Equity & Futures contract= blank Repo= Repo Tenor Currency Option Contract= Strike Price * 10000 All other Option Contract= Strike Price * 100
13	OptionType	char(2)	This field contains the option type. CALL= CE PUT = PE	Equity & Futures= NA Repo = Settlement Type Option Contract = CE/PE
14	LTP	bigint	The price at which the latest	e.g. 66.0025

			trade in a security/Contract has taken place.	
15	OpenPrice	bigint	The open price of a security/Contract.	e.g. 65.9950
16	ClosePrice	bigint	The closing price of a security/Contract.	e.g. 62.4625
17	High	bigint	This field the highest trade price for a day.	e.g. 66.0025
18	Low	bigint	The lowest trade price for a day.	e.g. 65.9950
19	%change	bigint	Percentage Change in Price with respect to previous day.	e.g. 5.67
20	PriceChg	bigint	This field contains the net change between the closing price and the LTP.	e.g. 3.5400

1.1.129 Broadcast News

Message Name	**Broadcast News**
Type of Message	TCP Broadcast
Description	This is the message sent in from OMS on **Broadcast news.**

Field Name	Type	Description	Values, meanings, Validations
MESSAGETYPE	bigint	Message Type	59
LOGTIME	bigint	This field should be set to zero while sending messages to the host. For messages coming from the host, this contains the time when the message was generated by the trading system host.	4:39:07 PM
SOURCE	bigint	Exchange ID	For details Refer to Appendix section 1.1
SEGMENT	bigint	Unique numeric Identifier for Product	For details Refer to Appendix section 1.1
MESSAGE	varchar	Message	

1.1.130 Market Open Messages

Message Name	**Market Status**
Type of Message	TCP Broadcast
Description	This is the reply message sent in response **Market status change**.

Sr. No.	Field Name	Type	Description	Values, meanings, Validations
1	Message ID	bigint	Message ID	71

2	Message Time		Market Message time	05:30:00 PM
3	Exchange	bigint	Exchange ID	For details Refer to Appendix section 1.1
4	Market	bigint	Market ID	For details Refer to Appendix section 1.1
5	Market Status message	varchar	Market Status change message	The Normal market has closed.

1.1.131 Alert Messages

Message Name	**Market Status**
Type of Message	TCP Broadcast
Description	This is the reply message sent in response **Text alert messages**.

Sr. No.	Field Name	Type	Description	Values, meanings, Validations
1	Message Position ID	bigint	Message position ID	63
	User type	bigint	User type	1
2	USLOGINID	varchar(30)	User ID of the User/Client who has placed the order.	Client1-T9065
3	Message Time	datetime(20)	Current alert message time.	06:04:20 PM
4	MessageAlert	varchar	Text Alert messages	Order value exceeds the set limit value Details- BSE: Client: T9065 Buy ABB - EQ Qty: 9999999999 Price: 222222.0*!OT
5	Filler	Filler	Filler	PM

Query and Reports

1.1.132 List Net Position Request

Message Name	**ListNetPosition**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to see **Net Position.**

Field Name	Type	Description	Values, meanings, Validations
exchange	bigint	Exchange ID for which net position to be fetch. If required all the exchange records then Set “0”	For details Refer to Appendix section 1.1
market	bigint	Market ID for which net position to be fetch. If required all market records then Set “0”	For details Refer to Appendix section 1.1
segment	bigint	Segment ID for which record to be fetch. If required for all the all segments records then set “0” Equity=1, Future=2, Option=3,Commodity Future =5,Commodity Option=6	1
symbol	varchar(30)	Symbol name for which net position to be fetch. If required all symbol records then Set “Blank”	e.g. ACC,ALS,GOLDEU RINR
series	char(2)	Unique Series Id	Equity: EQ/BE Repo = Security Type All other markets= NA
intraday	varchar(1)	Internal Product Type for Cash and Carry (carry forward) or Intraday. All= Blank Intraday= N CNC= Y	Y
instrumenttype	varchar(10)	This field contains the type of the instrument.	
optiontype	char(2)	Option Type for which net position to be fetch. If required all records then Set “Blank’ CALL= CE PUT = PE	
USBackOfficeId	varchar(30)	Client ID for which net position to be fetch. If required all clients records then Set “Blank”	Client1-t9065
group	varchar(6)	Equity trading group	BSE Equity= A/Y All other markets=NA
aggregate	bigint	Consolidate view-This is as per	Consolidate

		Inter-Operability functionality i.e. Buy in one exchange and sell in other exchange for same scrip will be considered as square off position. Detail view: This is as per exchange wise net position.	view=9000 Detail view=0
token	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master	270
broughtforward	bigint	Previous positions uploaded	N
carryforward	bigint	broughtforward+daysposition	Y
daysposition	bigint	todays positions	Y
userId	bigint	User id	Blank
strikeprice	bigint	Strike price of option contract.	Equity,Futures & Repo contract= blank Repo= Repo Tenor Commodity, Derivatives Options Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
APIDefaultScreenField	varchar(1)	For fix column header= Y Otherwise parameter not required.	Y
SessionKey	varchar(62)	Unique key for identify user session	2007100101-0420420920615521 0210
ThickClient	char(1)	Thick client	Y

1.1.133 List Net Position Reply

Message Name	**ListNetPosition**
Type of Message	HTTP Response
Description	This is the reply message sent in response **List Net Position Request**. The reply message contains the the status of the transaction after it was processed (i.e. **success or failure**). This message will have the details of client wise positions.

Response	**Minimum no of records**	**6**		
Sr. No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	Status of request	int	Status of request and data summary details	For Detailed View 0||2|49|1 For Consolidated View 0||2|56|1
Record2	Column Headers	varchar	Column Headers	For Detailed View Select|Client|Dealer|CMP Identifier|Unique Identifier|Symbol|B/F Qty|B/F Wt.|B/F Av Pr|B/F Val|B. Qty|B. Wt.|Av B. Pr|B. Val|S. Qty.|S. Wt.|Av S. Pr|S. Val|C/F Qty|C/F Wt.|C/F Av Pr|C/F Val|CMP|M2M|Dealer Id|UserId|P/L|Exchange|M2M+PL|Intra/CNC|Intra/CNC Flag|Segment|Exch|Seg|Mkt|Sell Value|Buy Value|Expiry Date|Strike Price|Opt. Type|MarketLot|Client Name|SettlementType|RepoTenor|SecurityType|RepoType|Borrow Amt(in Lacs)|Lend Amt(in Lacs)|LT Repo Rate For Consolidated View Select|Client|Dealer|CMP Identifier|Unique Identifier|Symbol|CMPNSEIdentifier|B/F Wt.|B/F Qty|B/F Av Pr|B/F Val|B. Qty|B. Wt.|Av B. Pr|B. Val|S. Qty.|S. Wt.|Av S. Pr|S. Val|C/F Qty|C/F Wt.|C/F Av Pr|C/F Val|CMP|M2M|Dealer Id|UserId|P/L|Exchange|M2M+PL|Intra/CNC|Intra/CNC Flag|Segment|Exch|Seg|Mkt|Sell Value|Buy Value|Expiry Date|Strike

				Price|Opt. Type|MarketLot|Client Name|SettlementType|RepoTenor|SecurityType|RepoType|Borrow Amt(in Lacs)|Lend Amt(in Lacs)|LT Repo Rate|BSEToken|NSEToken|CMP_NSE|M2M_NSE|M2M+PL_NSE|Clearing Corp
Record3	Column Types*	varchar	Denotes default visibility, alignment, and data type of the data column	SRNO|SRAO|SRAO|SLAO|SLAO|SLAO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|HLAO|HLAO|SRNO|SLAO|SRNO|SLAO|HLAO|SLAO|HLNO|HLNO|HLNO|SRNO|SRNO|SLDO|SRNO|SLAO|SLA|SRAO|SLAO|SLAO|SLAO|SLAO|HLNO|SRNO|SRNO
Record4	Column Widths	int	Width of the data column	15|100|100|0|0|91|44|44|60|80|56|56|75|72|61|61|75|69|37|37|60|80|50|0|0|0|0|40|54|40|0|60|0|0|0|80|80|80|80|30|0|100|80|80|80|80|56|61|50
Record5	Column Positions	int	Position of the data column	0|1|1|2|2|2|3|3|4|5|6|6|7|8|9|9|10|11|12|12|13|14|15|16|17|17|18|19|19|20|20|21|22|23|24|25|26|1005|1007|1008|1009|1010|1011|1012|1013|1014|1015|1016|1017
Record6	Column Data	varchar	Data as per Column header	For Detail View 7| Client1-T9065| Client1-T9065|7^1^3|7^1^3^5^16377^N^16377|GOLD 03 Aug 2018|0|0|0.00|0.0000|3|3|29378.00|8813400.0000|2|2|29378.00|5875600.0000|1|1|29378.00|2937800.0000|29378.00|0.00|16377|16377|0.0000|BSE|-300|INTRA|N|Commodities-Futures|1|5|3|5875600.00

				00|8813400.0000|03 Aug 2018|-1.0000||100|Client1 Client1||||0|0||0|0|0|0 For Consolidated View 199|Client1-T9065|DEVELOPMENT-T9065|199^1^1|199^9^1^1^63^N^33|RELIANCE|101325^2^1||0|0.00|0.0000|3||1346.50|4039.5000|3||1346.50|4039.5000|0||0.00|0.0000|1317.00|0|33|63|0.0000|All|0.0000|Intra|N|Equity|9|1|1|4039.5000|4039.5000|||1|Client Client||||0|0||199|101325|1346.00|0|0.0000|ICCL
Last Record	Total trade Summary	varchar	Total trade Summary	|Total||||0|0||0.0000|3|0|?|8813400.0000|2|0||5875600.0000|1|0||2937800.0000||0.000000|||0.0000||0.000000||||||5875600.0000|8813400.0000|||||Total||||0|0||

Detail Description of Record 1: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of request	int	Successful=0 Failed=1	0
2	Error Details	varchar	If Field1= 1 then Error message Otherwise blank	Blank
3	Number of records with data & summary	varchar	Number of records with data & summary	3
4	Number of Columns data	int	Number of Columns data	49
5	Number of Records	varchar	Number of Records	2

Detail Description of Record 2: Column Header (Detailed View)

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Select	bigint	Internal token no	4
2	Client ID	bigint	User ID/client ID for whom order placed.	Client1-T9065
3	Dealer ID	bigint	This field should contain the user ID/client ID who has logged in.	Delaer1-T9065
4	CMP Identifier	bigint	A unique identifier for a	4^2^3

			combination of Token, Source, Market.	
5	Unique Identifier	bigint	This field should contain the token—a unique identifier for a combination of Token, Source, Market, Client internal ID, Internal product type and Segment.	4^2^3^5^100021572^N ^2
6	Symbol	varchar(30)	Unique symbol defined for each asset.	GOLD
7	B/F Qty	bigint	Brought forward quantity.	0
8	B/F Wt.	bigint	Brought forward wt.	0
9	B/F Av Pr	bigint	Brought forward Average price.	0
10	B/F Val	bigint	Brought forward value.	0
11	B. Qty	bigint	Buy quantity Today's positions.	1
12	B. Wt.	bigint	Buy wt	1000
13	Av B. Pr	bigint	Average buy price	31930
14	B. Val	bigint	Buy value	3193000
15	S. Qty.	bigint	Sell quantity	0
16	S. Wt.	bigint	sell wt	0
17	Av S. Pr	bigint	Average sell price	0
18	S. Val	bigint	Sale value	0
19	C/F Qty	bigint	Carry forward quantity '+' sign indicates Buy net quantity and '-' sign indicates Sell net quantity.	2
20	C/F Wt.	bigint	Carry forward wt	1000
21	C/F Av Pr	bigint	Carry forward Average price	31930
22	C/F Val	bigint	Carry forward value	3193000
23	CMP	bigint	Current Market Price	31927
24	M2M	bigint	Mark to Market	-300
25	Dealer Id	bigint	Dealer internal Id	2
26	UserId	bigint	User internal id	16377
27	P/L	bigint	Profit loss	0
28	Exchange	varchar(10)	Exchange name	For details Refer to Appendix section 1.1
29	M2M+PL	bigint	Mark to Market + Profit loss	-300
30	Intra/CNC	varchar(10)	Internal Product Type for Cash and Carry (carry forward) or Intraday.	Intra/CNC
31	Intra/CNC Flag	varchar(5)	Internal Product Type for Cash and Carry (carry forward) or Intraday. INTRA=N CNC=Y	N
32	Segment	varchar(50)	Segment Equity/Future/Option/Commodities Futures/ Commodities	e.g. Commodities Futures

			Options	
33	Exch	bigint	Exchange ID	For details Refer to Appendix section 1.1
34	Seg	bigint	Unique numeric Identifier for Product	For details Refer to Appendix section 1.1
35	Market	bigint	Market ID	For details Refer to Appendix section 1.1
36	Sell Value	bigint	Sell value	0
37	Buy Value	bigint	buy value	3193000
38	Expiry Date	datetime(8)	This date is the actual last trading date of the Product. DD-MMM-YY	e.g. 05-Dec-18 Equity contract= NA All other Market= Contract expiry date
39	Strike Price	bigint	Strike price of option contract.	Equity,Future=Blank Repo= Repo Tenor All other Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
40	Opt. Type	char(2)	This field contains the option type. CALL= CE PUT = PE	Equity,Futures=Blank Repo = Settlement Type Option Contract = CE/PE
41	MarketLot	bigint	Market lot	100
42	Client Name	varchar(100)	User/Client full Name	Client1 Client1
43	SettlementType	varchar(2)	Settlement Type	Repo=Settlement Type All other markets=Blank
44	RepoTenor	bigint	Repo Tenor	Repo=Repo Tenor All other markets=Blank
45	SecurityType	varchar(2)	Security Type	Repo=Security Type All other markets=Blank
46	RepoType	varchar(2)	Repo Type	Repo=Repo Type All other markets=Blank
47	Borrow Amt(in Lacs)	bigint	Sell Amount Repo=Sell Amount All other markets=Blank	0
48	Lend Amt(in Lacs)	bigint	Buy Amount Repo=Buy Amount All other markets=Blank	0
49	LT Repo Rate	bigint	Repo Rate Repo=Repo Rate All other markets=Blank	Blank
50	Filler	bigint	Blank	0
51	Filler	bigint	Blank	0
52	Filler	bigint	Blank	0
53	Filler	bigint	Blank	0

Detail Description of Record 2: Column Header (Consolidated View)

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Select	bigint	Internal token no	4
2	Client	bigint	User ID/client ID for whom order placed.	Client1-T9065
3	Dealer	bigint	This field should contain the user ID/client ID who has logged in.	Delaer1-T9065
4	CMP Identifier	bigint	A unique identifier for a combination of Token, Source, Market.	199^1^1
5	Unique Identifier	bigint	This field should contain the token—a unique identifier for a combination of Token, Source, Market, Client internal ID, Internal product type and Segment.	199^9^1^1^63^N^33
6	Symbol	varchar(30)	Unique symbol defined for each asset.	RELIANCE
7	CMPNSEIdentifier			101325^2^1
8	B/F Wt.	bigint	Brought forward quantity.	
9	B/F Qty	bigint	Brought forward wt.	0
10	B/F Av Pr	bigint	Brought forward Average price.	0
11	B/F Val	bigint	Brought forward value.	0
12	B. Qty	bigint	Buy quantity Today's positions.	3
13	B. Wt.	bigint	Buy wt	
14	Av B. Pr	bigint	Average buy price	1346.5
15	B. Val	bigint	Buy value	4039.5
16	S. Qty.	bigint	Sell quantity	3
17	S. Wt.	bigint	sell wt	
18	Av S. Pr	bigint	Average sell price	1346.5
19	S. Val	bigint	Sale value	4039.5
20	C/F Qty	bigint	Carry forward quantity '+' sign indicates Buy net quantity and '-' sign indicates Sell net quantity.	0
21	C/F Wt.	bigint	Carry forward wt	
22	C/F Av Pr	bigint	Carry forward Average price	0
23	C/F Val	bigint	Carry forward value	0
24	CMP	bigint	Current Market Price for BSE	1317
25	M2M	bigint	Mark to Market for BSE	0
26	Dealer Id	bigint	Dealer internal Id	33
27	UserId	bigint	User internal id	63
28	P/L	bigint	Profit loss	0

29	Exchange	varchar(10)	Exchange name	All
30	M2M+PL	bigint	Mark to Market + Profit loss for BSE	0
31	Intra/CNC	varchar(10)	Internal Product Type for Cash and Carry (carry forward) or Intraday.	Intra
32	Intra/CNC Flag	varchar(5)	Internal Product Type for Cash and Carry (carry forward) or Intraday. INTRA=N CNC=Y	N
33	Segment	varchar(50)	Segment Equity/Future/Option/Commodities Futures/ Commodities Options	Equity
34	Exch	bigint	Exchange ID	9
35	Seg	bigint	Unique numeric Identifier for Product	1
36	Mkt	bigint	Market ID	1
37	Sell Value	bigint	Sell value	4039.5
38	Buy Value	bigint	buy value	4039.5
39	Expiry Date	datetime(8)	This date is the actual last trading date of the Product. DD-MMM-YY	
40	Strike Price	bigint	Strike price of option contract.	
41	Opt. Type	char(2)	This field contains the option type. CALL= CE PUT = PE	
42	MarketLot	bigint	Market lot	1
43	Client Name	varchar(100)	User/Client full Name	Client1 Client1
44	SettlementType	varchar(2)	Settlement Type	Repo=Settlement Type All other markets=Blank
45	RepoTenor	bigint	Repo Tenor	Repo=Repo Tenor All other markets=Blank
46	SecurityType	varchar(2)	Security Type	Repo=Security Type All other markets=Blank
47	RepoType	varchar(2)	Repo Type	Repo=Repo Type All other markets=Blank
48	Borrow Amt(in Lacs)	bigint	Sell Amount Repo=Sell Amount All other markets=Blank	0
49	Lend Amt(in Lacs)	bigint	Buy Amount Repo=Buy Amount All other markets=Blank	0
50	LT Repo Rate	bigint	Repo Rate Repo=Repo Rate All other markets=Blank	
51	BSEToken	bigint	BSE scrip token	199
52	NSEToken	bigint	Blank	101325

53	CMP_NSE	bigint	Current market by price NSE	1346
54	M2M_NSE	bigint	Mark to market NSE	0
55	M2M+PL_NSE	bigint	Mark to market+profit loss NSE	0
56	Clearing Corp	bigint	Clearing corporation	ICCL

1.1.134 Net Position Update (Detailed View) - TCP

Message Name	**ListNetPosition**
Type of Message	TCP Response
Description	This is the reply message sent in on every trade for updation of Netposition.

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Message Position	bigint	Message position ID	82
2	ID	bigint	Net position internal ID(Incremental)	100000089
3	SequenceId	bigint	Sequence ID	100000198
4	Exchange	bigint	Exchange ID	For details Refer to Appendix section 1.1
5	UsId	bigint	The user internal ID for whom order to be place.	16377
6	BackOfficeId	varchar(30)	The user ID/client ID for whom order to be place.	Client1-T9065
7	Market	bigint	Market ID	1 For details Refer to Appendix section 1.1
8	Script ID	bigint	Script ID	244
9	CNID	bigint	Unique numeric Identifier for Product	1 For details Refer to Appendix section 1.1
10	BuyOutstandingTradingLimitQuantity	bigint	NA	1
11	BuyOutstandingTradingLimitAmount	bigint	NA	17150000
12	SellOutstandingTradingLimitQuantity	bigint	NA	0
13	SellOutstandingTradingLimitAmount	bigint	NA	0
14	BuyOutstandingDepositQuantity	bigint	NA	0
15	BuyOutstandingDepositAmount	bigint	NA	0
16	SellOutstandingDepos0itQuantity	bigint	NA	0
17	SellOutstandingDepositAmount	bigint	NA	0
18	BuyTradingLimitQuantity	bigint	Traded buy quantity	1

			Equity=IntraDay buy quantity All other Markets= Buy quantity	
19	BuyTradingLimitAmount	bigint	Traded buy amount Equity=IntraDay buy amount Option segment=Traded Order value(Quantity*(order price + Strike price)) All other Markets=Traded buy amount	17150000
20	SellTradingLimitQuantity	bigint	Traded sell quantity Equity=IntraDay sell quantity All other Markets=Traded sell quantity	1
21	SellTradingLimitAmount	bigint	Traded sell amount Equity=IntraDay sell Amount Option segment= Traded Order value(Quantity*(order price + Strike price)) All other Markets=Traded sell amount	17150000
22	BuyDepositQuantity	bigint	Traded buy quantity Equity=CNC traded buy quantity All other markets=0	0
23	BuyDepositAmount	bigint	Traded buy amount Equity=CNC traded buy amount Option segment= Traded Order value(Quantity*(order price + Strike price)) All other markets=0	0
24	SellDepositQuantity	bigint	Traded sell quantity Equity=CNC traded sell quantity All other markets=0	0
25	SellDepositAmount	bigint	Traded sell amount Equity=CNC traded sell amount Option segment= Traded Order value(Quantity*(order price + Strike price))	0

			All other markets=0	
26	OrderSpecialMarginAmount	bigint	Order Special Margin Amount	0
27	TradeSpecialMarginAmount	bigint	Trade Special Margin Amount	0
28	OrderLienMarginAmount	bigint	Order Lien Margin Amount	0
29	TradeLienMarginAmount	bigint	Trade Lien Margin Amount	0
30	OrderUsedDeposit	bigint	Order Used Deposit	2147180
31	TradeUsedDeposit	bigint	Trade Used Deposit	2147180
32	OrderTradingLimitUsed	bigint	Order TradingLimit Used	17150000
33	TradeTradingLimitUsed	bigint	Trade TradingLimit Used	17150000
34	ProfitLoss	bigint	Profitloss	0
35	EquitySales	bigint	NA	0
36	DerivativesSales	bigint	NA	0
37	CreatedBy	bigint	Internal ID of the User who has traded.	9
38	BackOfficeId	varchar(30)	Internal login ID of the User who has logged in.	T9065
39	CreatedAt	bigint	Netposition update time.	Blank
40	LastUpdatedBy	bigint	Traded User Id	9
41	BackOfficeId	bigint	Traded Client Id	T9065
42	LastUpdatedAt	varchar(30)	Netposition update time.	Blank
43	Field1	bigint	Filler	Filler
44	Field2	bigint	Filler	Filler
45	Field3	bigint	Filler	Filler
46	Field4	bigint	Filler	Filler
47	RowState	bigint	Rowstate	0
48	CNID	bigint	Unique numeric Identifier for Product.	1 For details Refer to Appendix section 1.1
49	InstrumentType	varchar(10)	This field contains the type of the instrument.	EQUITY= blank REPO = Repo Type All other Markets = Instrument Type
50	ScId	varchar(30)	Symbol name	ACC
51	Series	char(2)	Unique Series Id	Equity= EQ/BE Repo= Security Type All other markets: blank
52	Expiry Date	datetime(8)	This date is the actual last trading date of the Product. DD-MMM-YY	29-Aug-18 Equity contract= blank All other Market= Contract expiry date
53	Strike price	bigint	Strike price of option contract.	Equity,Futures & Repo contract= NA blank

				Repo= Repo Tenor All other Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
54	Option type	char(2)	This field contains the option type. CALL= CE PUT = PE	Equity,Futures= NA Repo = Settlement Type Option Contract = CE/PE
55	BoardLot	bigint	BoardLot	1
56	Expiry Date	bigint	This date is the actual last trading date of the Product	e.g. 1535500800 Equity contract= blank All other Market= Contract expiry date
57	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	EURINR
58	BrokerID	varchar(30)	Broker ID	T9065
59	BackOfficeId	bigint	Client internal ID	16377
60	AdminUSID	varchar(30)	Dealer Id	Dealer1-T9065
61	SettlementType	varchar(2)	Repo Settlement type Applicable only for REPO	T0 or T1 BSE Repo= SettlementType All other markets=blank
62	RepoTenure	bigint	Repo Tenor (In Days) Applicable only for REPO	e.g. 4 BSE Repo= RepoTenure All other markets=blank
63	SecurityType	varchar(2)	Security type Applicable only for REPO	CB or CD or CP BSE Repo= SecurityType All other markets=blank
64	TransferAble	varchar(2)	T- Transferable /NT- Non Transferable security Applicable only for REPO	T or NT BSE Repo= Transferable All other markets=blank
65	BuyTradingLimitQuantity	bigint	Traded buy quantity	REPO=Traded buy quantity All other markets= Blank

66	SellTradingLimitQuantity	bigint	Traded sell quantity	REPO=Traded sell quantity All other markets= Blank
67	USLoginName	varchar(30)	User/client full name	Client1 Client1
68	Filler	Filler	Filler	~N

1.1.135 Net Position Update (Consolidated View) - TCP

Message Name	**ListNetPosition**
Type of Message	TCP Response
Description	This is the reply message sent in on every trade for updation of Netposition.This message is sent for online updation of Consoldiated Net position.

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Message Position	bigint	Message position ID	92
2	ID	bigint	Margin position internal ID(incremental).	100000079
3	SequenceId	bigint	Sequence ID	100000188
4	Exchange	bigint	Exchange ID	For details Refer to Appendix section 1.1
5	UsId	bigint	The user internal ID for whom order to be place.	16377
6	BackOfficeId	varchar(30)	The user ID/client ID for whom order to be place.	Client1-T9065
7	Market	bigint	Market ID	For details Refer to Appendix section 1.1
8	Script ID	bigint	BSE Script ID	244
9	CNID	bigint	Unique numeric Identifier for Product	For details Refer to Appendix section 1.1
10	BuyOutstandingTradingLimitQuantity	bigint	NA	1
11	BuyOutstandingTradingLimitAmount	bigint	NA	17150000
12	SellOutstandingTradingLimitQuantity	bigint	NA	1
13	SellOutstandingTradingLimitAmount	bigint	NA	17150000
14	BuyOutstandingDepositQuantity	bigint	NA	0
15	BuyOutstandingDepositAmount	bigint	NA	0
16	SellOutstandingDepos0itQuantity	bigint	NA	0
17	SellOutstandingDepositAmount	bigint	NA	0
18	BuyTradingLimitQuantity	bigint	Traded buy quantity	1

			Equity=IntraDay buy quantity All other Markets= Buy quantity	
19	BuyTradingLimitAmount	bigint	Traded buy amount Equity=IntraDay buy amount Option segment=Traded Order value(Quantity*(order price + Strike price)) All other Markets=Traded buy amount	17150000
20	SellTradingLimitQuantity	bigint	Traded sell quantity Equity=IntraDay sell quantity All other Markets=Traded sell quantity	0
21	SellTradingLimitAmount	bigint	Traded sell amount Equity=IntraDay sell Amount Option segment= Traded Order value(Quantity*(order price + Strike price)) All other Markets=Traded sell amount	0
22	BuyDepositQuantity	bigint	Traded buy quantity Equity=CNC traded buy quantity All other markets=0	0
23	BuyDepositAmount	bigint	Traded buy amount Equity=CNC traded buy amount Option segment= Traded Order value(Quantity*(order price + Strike price)) All other markets=0	0
24	SellDepositQuantity	bigint	Traded sell quantity Equity=CNC traded sell quantity All other markets=0	0
25	SellDepositAmount	bigint	Traded sell amount Equity=CNC traded sell amount Option segment= Traded Order value(Quantity*(order price + Strike price))	0

			All other markets=0	
26	OrderSpecialMarginAmount	bigint	Order Special Margin Amount	0
27	TradeSpecialMarginAmount	bigint	Trade Special Margin Amount	0
28	OrderLienMarginAmount	bigint	Order Lien Margin Amount	0
29	TradeLienMarginAmount	bigint	Trade Lien Margin Amount	0
30	OrderUsedDeposit	bigint	Order Used Deposit	2147180
31	TradeUsedDeposit	bigint	Trade Used Deposit	2147180
32	OrderTradingLimitUsed	bigint	Order TradingLimit Used	17150000
33	TradeTradingLimitUsed	bigint	Trade TradingLimit Used	17150000
34	ProfitLoss	bigint	Profitloss	0
35	EquitySales	bigint	NA	0
36	DerivativesSales	bigint	NA	0
37	CreatedBy	bigint	Internal ID of the User who has traded.	9
38	BackOfficeId	varchar(30)	Internal login ID of the User who has logged in.	T9065
39	CreatedAt	bigint	Netposition update time.	Blank
40	LastUpdatedBy	bigint	Traded User Id	9
41	BackOfficeId	bigint	Traded Client Id	T9065
42	LastUpdatedAt	varchar(30)	Netposition update time.	Blank
43	Field1	bigint	Filler	Filler
44	Field2	bigint	Filler	Filler
45	Field3	bigint	Filler	Filler
46	Field4	bigint	Filler	Filler
47	RowState	bigint	Rowstate	0
48	CNID	bigint	Unique numeric Identifier for Product.	1 For details Refer to Appendix section 1.1
49	InstrumentType	varchar(10)	This field contains the type of the instrument.	EQUITY= blank REPO = Repo Type All other Markets = Instrument Type
50	ScId	varchar(30)	Symbol description/Name	ACC
51	Series	char(2)	Unique Series Id	Equity= EQ/BE Repo= Security Type All other markets: blank
52	Expiry Date	datetime(8)	This date is the actual last trading date of the Product. DD-MMM-YY	29-Aug-18 Equity contract= blank All other Market= Contract expiry date
53	Strike price	bigint	Strike price of option contract.	Equity,Futures & Repo contract= NA blank

				Repo= Repo Tenor All other Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
54	Option type	char(2)	This field contains the option type. CALL= CE PUT = PE	Equity,Futures= NA Repo = Settlement Type Option Contract = CE/PE
55	BoardLot	bigint	BoardLot	1
56	Expiry Date	bigint	This date is the actual last trading date of the Product	e.g. 1535500800 Equity contract= blank All other Market= Contract expiry date
57	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	EURINR
58	BrokerID	varchar(30)	Broker ID	T9065
59	BackOfficeId	bigint	Client internal ID	16377
60	AdminUSID	varchar(30)	Dealer Id	Dealer1-T9065
61	SettlementType	varchar(2)	Repo Settlement type Applicable only for REPO	T0 or T1 BSE Repo= SettlementType All other markets=blank
62	RepoTenure	bigint	Repo Tenor (In Days) Applicable only for REPO	e.g. 4 BSE Repo= RepoTenure All other markets=blank
63	SecurityType	varchar(2)	Security type Applicable only for REPO	CB or CD or CP BSE Repo= SecurityType All other markets=blank
64	TransferAble	varchar(2)	T- Transferable /NT- Non Transferable security Applicable only for REPO	T or NT BSE Repo= Transferable All other markets=blank
65	BuyTradingLimitQuantity	bigint	Traded buy quantity	REPO=Traded buy quantity All other markets= Blank

66	SellTradingLimitQuantity	bigint	Traded sell quantity	REPO=Traded sell quantity All other markets= Blank
67	USLoginName	varchar(30)	User/client full name	Client1 Client1
68	ClearingCorpID	bigint	Clearing corporation ID	1
69	BseSCID	bigint	BSE Script ID	244
70	NseSCID	bigint	NSE Script ID	100019
71	Filler	filler	Filler	~N

1.1.136 Activity Log Request

Message Name	ListActivityLog
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **view transaction activity of user.**

Field Name	Type	Description	Values, meanings, Validations
exchange	bigint	Exchange ID for which activity log to be fetch. If required for all the exchanges record then Set “0”	For details Refer to Appendix section 1.1
segment	bigint	Segment ID for which activity log to be fetch. If required for all the segment record then Set “0” Future=1 Option=3	For details Refer to Appendix section 1.1
symbol	varchar(30)	Unique symbol / Asset Code defined for each asset. Symbol name for which activity log to be fetch. If required for all the symbol record then Set “Blank”	
market	bigint	Market ID for which activity log to be fetch. If required for all the market record then Set “0”	For details Refer to Appendix section 1.1
series	char(2)	Series Id first two character of symbol	EQ/BE For all other markets blank
instrumenttype	varchar(10)	Instrument name for which activity log to be fetch. If required for all the Instrument record then Set “Blank”	Equity= blank REPO= Repo Type All other Markets = Instrument Type
optiontype	char(2)	This field contains the option type. CALL= CE PUT = PE	Equity & Futures= NA Repo = Settlement Type Option Contract = CE/PE

user	varchar(30)	NA	blank
account	varchar(30)	User login ID for which activity log to be fetch. If required for all the users record then Set "Blank"	Client1-T9065
intraday	bigint	Internal Product Type for carry forward or Intraday. ALL=Blank Intraday= N CNC= Y	
buysellindicator	bigint	This field should specify whether the order is a buy or sell. ALL= 0 BUY= 1 SELL= 2	
group	bigint	Equity trading group	BSE Equity= A/Y All other markets=Blank
companyname	bigint	NA	Blank
aggregate	bigint	aggregate	N
userId	bigint	NA	Blank
users	bigint	NA	Blank
contracttokens	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master.	Blank
securitytokens	bigint	This field contains the token number of the Contract.This is internal token number received in Scrip/Contract Master.	blank
RejectedOrders	bigint	List of rejected orders.	0
ActivityLogTime	bigint	User Activity log time.	16:59:27
ActivityLogToTime	bigint	User Activity log to time.	16:59:27
strikeprice	bigint	Strike price of option contract.	Equity & Futures contract = Blank Repo = Repo Tenor All other Market= Strike Price*100 Currency Option Contract = Strike Price * 10000
APIDefaultScreenField	varchar(1)	For fix column header= Y Otherwise parameter not required.	Y
SessionKey	varchar(62)	Unique key for identify user session	801376505-02251199
Thick Client	char(1)	Thick client	Y

1.1.137 Activity Log Reply

Message Name	ListActivityLog
Type of Message	HTTP Response
Description	This is the reply message sent in response to **view transaction activity of user request**. The reply message contains the Order no and the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum number of records	6		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	Status of request	int	Status of Request	0||24|29|
Record2	Column Headers	varchar	Blank	Id|Exchange|Symbol|Series|Order No|Volume|Price|B/S|Disclosed Volume Remaining|Trig/Stp Price|Activity|Time|Intra/CNC|User|Remaining Volume|Last Update Time|Segment|N Token|Token|Volume Filled Today|Expiry Date|Strike Price|Option Type|Account|Error|Admin|Book Type|Duration|Market
Record3	Column Types*	varchar	Denotes default visibility, alignemnt, and data type of the data column	HRNO|SLAO|SLAO|SLAO|SRAO|SRNO|SRNO|SLO|HRNO|SRNO|SRAO|SRDO|SRAO|SLAO|HRNO|SLAO|SLAO|HRAO|HRAO|HRNO|SLDO|SLNO|SLAO|SLAO|SLAO|SLAO|SLO|SLAO|SLAO
Record4	Column Widths	int	Width of the data column	80|80|80|80|80|80|80|80|80|80|80|80|80|80|80|80|80|80|80|80|80|80|80|80|80|80|40|40|80
Record5	Column Positions	int	Position of the data column	0|1|2|3|4|5|6|7|8|9|10|11|12|14|22|32|36|37|39|40|43|44|45|46|47|48|49|50|51
Record6	Column Data	varchar	Data per order	100000017|BSE|HDFCBANK|EQ|1564033419616000001|1|2403.9000|Buy|0|0.0000|Price Conf.|12:31:38|Intra|YUVRAJP-T9072|1|2019-07-25 12:31:38.073|Equity|-1|100|0|||YUVRAJP-T9072||YUVRAJP-T9072|Normal|EOTODY|Equity

Detail Description of Record 1: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of request	int	Successful=0 Failed=1	0
2	Error Details	varchar	If field1=1 Error message otherwise blank	Blank
3	Number of Records with data.	varchar	Number of Records with data.	6
4	Number of Records with data and summary	varchar	Number of Records with data and summary	29

Detail Description of Record 2: Column Header

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Id	bigint	Order/Trade internal ID	100000017
2	Exchange	varchar(10)	Exchange name	BSE For details Refer to Appendix section 1.1
3	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	EQUITY=EQ/BE All other markets=Blank
4	Series	char(2)	Series ID	Equity markets= EQ/BE For all other markets blank
5	Order No	bigint	Exchange Unique order number	1564033419616000000
6	Volume	bigint	This field contain the order quantity.	1
7	Price	bigint	This field contain the order price.	2403.9
8	B/S	varchar(5)	Whether the order is a buy or sells.	Buy/Sell
9	Disclosed Volume Remaining	bigint	This is the disclosed volume remaining from the original disclosed volume after trade(s).	0
10	Trig/Stp Price	bigint	Trigger rate (for stoploss & OCO orders only).	0
11	Activity	varchar(50)	Activity message	Trade Conf./ Ord Conf.|
12	Time	datetime(8)	Order time	12:31:38
13	Intra/CNC	varchar(15)	Internal Product Type for Cash and Carry (carry forward) or Intraday.	Intraday/CNC
14	User	varchar(30)	The user ID/client ID of user.	Client1-T9072
15	Remaining Volume	bigint	Remaining volume	1
16	Last Update Time	datetime(8)	Last updated time.	25-07-2019 12:31:38
17	Segment	varchar(50)	Unique numeric Identifier for	Equity

			Product logged in. For Equity markets= Equity If Derivative and Currency is CNC then= Futures-CNC/Options-CNC otherwise Futures/Options For Commodity market is CNC then = ommodities-Options-CNC Commodities-Futures-CNC otherwise Commodities-Options Commodities-Futures	
18	N Token	bigint	Exchange Instrument ID	-1
19	Token	bigint	Exchange Instrument ID	100
20	Volume Filled Today	bigint	Volume Filled Today	0
21	Expiry Date	datetime(8)	This date is the actual last trading date of the Product. DD MM YYYY format	29 Jul 2019
22	Strike Price	bigint	Strike price of option contract.	Equity & Futures = blank Repo= Repo Tenor All other option Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
23	Option Type	char(2)	This field contains the option type. CALL= CE PUT = PE	Equity,Futures= Blank Repo = Settlement Type Option Contract = CE/PE
24	Account	varchar(30)	The user ID/client ID of user.	Client-T9072
25	Error	varchar(100)	Error message or Normal message	Order Added Successfully
26	Admin	varchar(30)	The user ID/client ID who has logged in.	T9072
27	Book Type	varchar(30)	Order Book Type Regular,Market,Limit=Normal Stop Loss=SL	Normal
28	Duration	varchar(20)	Retention Type	EOTODY
29	Market	varchar(20)	Market Name	Equity For details Refer to Appendix section 1.1

1.1.138 Download Order File Request

Message Name	**DownloadOrderFile**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **Download particular order file.**

Field Name	Type	Description	Values, meanings, Validations
userId	varchar(30)	Client ID for which order file to be downloaded. If required all the User orders file then Set "blank"	Client1-t9065
ordersource	bigint	Exchange ID	For details Refer to Appendix section 1.1
ordermarket	bigint	Market ID	For details Refer to Appendix section 1.1
SessionKey	varchar(62)	Unique key for identify user session	801376505-02251199
Thick Client	char(1)	Thick client	Y

1.1.139 Download Order Files Reply

Message Name	**DownloadOrderFile**
Type of Message	HTTP Response
Description	This is the reply message sent in response to Download particular order file request. The reply message contains the Order number and the status of the transaction after it was processed (i.e. success or failure).

Response	**Minimum number of records**	**2**		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	int	Successful=0 Failed=1	0
Record1:Field2	Error details	varchar	If field1= 1 then error message otherwise blank	Blank
Record2 (Column header and data separated by comma)	Column headrs and Column data.	varchar	Column headrs and Column data as per order.	Id,Exchange,Market,Segment,NSEToken,BSEToken,Token,InstrumentType,Symbol,Series,ExpiryDate,StrikePrice,OptionType,Transaction,ClientCode,OrderNumber,BookType,BuySell,Quantity,Price,TriggerPrice,Timestamp,ParticipantCode,Retention,ProClient,AdminLogin

				100000928,BSE,Commodities,Commodities-Futures,1400004,1400004,7,FUTCOM,GOLD,,1533254400,-0, ,Order Confirmation, Client1-T9065,1533014259693003018,1,Buy,1,0.00,0.00,1533036370,0,1,Client,Dealer1-T9065

Detail Description of Record2: Column Header and Data per Order

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Id	bigint	Internal order ID	100000928
2	Exchange	varchar(10)	Exchange name	For details Refer to Appendix section 1.1
3	Market	varchar(10)	Market name	For details Refer to Appendix section 1.1
4	Segment	varchar(50)	Unique numeric Identifier for Product Equity=1, Futures=2, Options=3,Commodities-Future =5,Commodities-Option=6	Commodities-Futures
5	NSEToken	bigint	Exchange Instrument ID	BSE EQUITY= -1 BSE Repo = NA All other markets = Exchange Instrument ID
6	BSEToken	bigint	Exchange Instrument ID	BSE EQUITY and REPO =Exchange Instrument ID All other markets= NA NSE Equity= -1
7	Token	bigint	The token number of the Contract.This is internal token number received in Scrip/Contract Master.	7
8	InstrumentType	varchar(10)	Type of the instrument.	EQUITY= NA REPO= Repo Type

				All other Markets = Instrument Type
9	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	ACC,ALS,GOLD, EURINR etc.
10	Series	char(2)	Series ID	Equity=EQ/BE All other markets=blank
11	ExpiryDate	bigint	This date is the actual last trading date of the Product in (seconds).	Equity contract= NA All other Market= Contract expiry date
12	StrikePrice	bigint	Strike price of option contract.	Equity & Futures = blank Repo= Repo Tenor All other option Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
13	OptionType	char(2)	This field contains the option type. CALL= CE PUT = PE	Equity,Futures= NA Repo = Settlement Type Option Contract = CE/PE
14	Transaction	varchar(50)	Transaction status of the Order. Order Confirmation/ Order Rejection	Order Confirmation
15	ClientCode	bigint	The user ID/client ID for whom order to be place.	Client1-T9065
16	OrderNumber	bigint	An Order Number assigned to the order. It is a unique identification for an order.	1533014259693000000
17	BookType	bigint	Order type Regular,Normal, Limit=1 Stoploss=3 OCO=4	1
18	BuySell	varchar(10)	This field should specify whether the order is a buy or sell. Buy/Sell	Buy
19	Quantity	bigint	Total order quantity.	1
20	Price	bigint	Order price.	0
21	TriggerPrice	bigint	Trigger price.	Trigger price

				always greater than order price.
22	Timestamp	bigint	Time stamp	1533036370
23	ParticipantCode	varchar(20)	Participant type	0
24	Retention	bigint	This field contains the number of days for a GTD order. GTD Order is a conditional request made to the broker (or the system) to keep the order in system till a predetermined date, unless it is executed or cancelled. Generally the order is valid for a day. If this field is non-zero, the GTC flag must be off. For MCX expiry date format = (in seconds from January 1, 1970) For NCDEX expiry date format = (in seconds from January 1, 1980)	e.g. 1224864549 Applicable only for MCX and NCDEX Commodities NCDEX = 0 or GTD date MCX = 0,1,-1, blank or GTD date BSE Equity(EOSESS) = 1 BSE Equity(EOTODY) = 2 BSE Repo = NA BSE currency= 0 or blank All other BSE markets =Blank NSE all markets =0
25	ProClient	varchar(30)	Whether the order is entered on behalf of the broker or a trader. Client / PRO	Client
26	AdminLogin	varchar(30)	This field should contain the user ID/client ID who has logged in.	Dealer1-T9065

1.1.140 Download Trade File Request

Message Name	DownloadTradeFileNew
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **Download trade file.**

Field Name	Type	Description	Values, meanings, Validations
tradeuserid	varchar(30)	Client ID for which trade file to be downloaded. If required all the User trades file then Set "blank"	Client1-T9065
tradesource	bigint	Exchange ID	For details Refer to Appendix section 1.1
trademarket	bigint	Market ID	For details Refer to Appendix section 1.1
SessionKey	varchar(62)	Unique key for identify user session.	801376505-02251199
Thick Client	char(1)	Thick client	Y

1.1.141 Download Trade File Reply

Message Name	DownloadTradeFileNew
Type of Message	HTTP Response
Description	This is the reply message sent in response to **Download trade file request**. The reply message contains the Trade id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum number of records	2		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	int	Successful=0 Failed=1	0
Record1:Field2	Error details	bigint	If field1= 1 then error message otherwise blank	Blank
Record2 (Data separated by comma)	Data per Trade	varchar	Data as per Trade	3700,11,0,FUTCOM,GOLD,03 Aug 2018,0,-0.01, ,GOLD18AUGFUT,,,,906510003,0,1,1,293.78,1,Client1-T9065,9065,,9065,,31 Jul 2018 17:34:38,31 Jul 2018 16:56:26,1533014259693003019,,,31 Jul 2018 16:56:26,,,,,1111111111111012,,1,

Detail Description of Record 2: Trade File Data

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Internal Trade ID	bigint	Internal trade ID	3700
2	Trade Status	bigint	Trade status Original Trader= 11 Modified Trade= 12 Approved Trader=17	11

			Rejected Trade= 18	
3	Filler	Filler	Filler	Filler
4	Instrument Type	bigint	Type of the instrument.	EQUITY= NA REPO= Repo Type All other Markets = Instrument Type
5	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	GOLD
6	ExpiryDate	bigint	This date is the actual last trading date of the Product. DD-MMM-YYY format	Equity contract= NA All other Market= Contract expiry date
7	Filler	Filler	Filler	Filler
8	StrikePrice	bigint	Strike price of option contract.	Equity & Futures = blank Repo= Repo Tenor All other option Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
9	OptionType	char(2)	This field contains the option type. CALL= CE PUT = PE	Equity,Futures= NA Repo = Settlement Type Option Contract = CE/PE
10	Symbol	varchar(150)	Symbol with expiry date.	GOLD18AUGFUT
11	Filler	Filler	Filler	Filler
12	Filler	Filler	Filler	Filler
13	Filler	Filler	Filler	Filler
14	Trader ID	bigint	User ID of the broker.	906510003
15	Filler	Filler	Filler	0
16	Buy/Sell Indicator	bigint	Whether the order is a buy or sells. Buy=1 Sell=2	1
17	Trade Quantity	bigint	Trade quantity.	1
18	Trade price	bigint	Trade price.	293.78
19	Account type	bigint	Whether the order is entered on behalf of the broker or a trader. Client=1 Pro=2	1
20	Client Code	varchar(30)	The user ID/client ID for whom order to be place.	Client1-T9065
21	Member Code	bigint	This field contain the trading member ID.	9065
22	Filler	Filler	Filler	Filler

23	TM code	bigint	Trading member code	9065
24	Participant type	Filler	Participant type	
25	Trade Time	bigint	This Field contain security/contract traded time.	31-07-2018 17:34
26	Last Modified time	bigint	In the case of order entry, this field will be same as Entry Date Time. After the order is modified it contains the time when the Order was last modified.	31-07-2018 16:56
27	Order ID	bigint	Unique order ID	1533014259693000000
28	Filler	Filler	Filler	Filler
29	Filler	Filler	Filler	Filler
30	Order time	bigint	The order time (original order) will be populated in this field.	31-07-2018 16:56
31	Filler	Filler	Filler	Filler
32	CP code confirmation (Y/N)	bigint	Custodial Participant (CP) Code provided at the time of order entry or 'Blank' in case of no CP code.	
33	Old Custodial Participant	bigint	NA	
34	Old CM Code	Filler	NA	NA
35	NNF Location ID	bigint	The Location Id of the end-user who is placing the orders should be registered with the Exchange. The location id consists of 16 digits and break-up of this Location Id is given below: 6 digits: Pin Code 4 digits: Branch Id 2 digits: User id 1 digit: Program Trading Possible Values 0 – No Program Trading 1 – Program Trading Allowed 2 – DMA Allowed but No Program Trading 2 – DMA Allowed with Program Trading 4 – SOR	Its Different from Exchange to exchange

			5 – Handheld Device 6 – SOR with DMA 7 – SOR with DMA with Program Trading 2 digits: Vendor Code as as assigned by the exchange.	
36	Product month	bigint	Contract month as defined for the Contract.	Nov-18
37	Active/passive order flag	bigint	Active= 0 Passive=1	1

1.1.142 Download Client Master Request

Message Name	**UserSearchServlet**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **download client master.**

Field Name	Type	Description	Values, meanings, Validations
MAXUSID	bigint	Internal USID Should be zero to fetch all the client details	0
userstatus	int	User Status Active= 1 Deactive= 3	1
SessionKey	varchar(62)	Unique key for identify user session	801376505-02251199
Thick Client	char(1)	Thick client	Y

1.1.143 Download Client Master Reply

Message Name	**UserSearchServlet**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **download client master request**. The reply message contains the user login id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum number of records	2		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	int	Successful=0 Failed= 1	0 or 1
Record1:Field2	Error details	varchar	If field1=1 then	0

			error message otherwise blank	
Record1:Field3	User Size	bigint	Total number of records	2
Record2	Data per request	varchar	Blank	16377|Client|Client|ClientC-T9065|ClientC-T9065|1|1|2018-08-14 13:42:44.93|N||
Record3	Data per request	varchar	Blank	100021572|Test R1||testR1-T9065|testR1-T9065|1|1|2018-08-14 13:44:29.39|N||

Detail Description of Record 2: Data per Request

Field No	Field Name	Type	Description	Values, meanings, Validations
1	USID	bigint	Internal ID of the Client/User. This ID will be provided by BOW Server in Logon response.	16377
2	FirstName	varchar(30)	User First Name	Client
3	LastName	varchar(30)	User Last Name	Client
4	LoginId	varchar(30)	The user ID/client ID under dealer.	Client-T9065
5	BackOfficeId	varchar(30)	The user ID/client ID under dealer.	Client-T9065
6	Status	varchar	This field contain the status of user. Active = 1 Inactive = 2 Suspended = 3	1
7	Type	varchar	This field contain the type of user. Normal = 1 Employee/Dealer= 2 Administrator= 3 NRI = 4	1
8	CreatedAt	datetime(8)	Client created time.	2017-09-18 23:21:34.713
9	Flag	char(1)	Flag	Y or N
10	Filler	Filler	Filler	Filler
11	AdminUsId	Filler	The user ID/client ID who has logged in.	Client-T9065

Detail Description of Record 3: Data per Request

Field No	Field Name	Type	Description	Values, meanings, Validations
1	USID	bigint	Internal ID of the Client/User. This ID will be provided by BOW Server in Logon response.	100021572
2	FirstName	varchar(30)	User First Name	Client

3	LastName	varchar(30)	User Last Name	Client
4	LoginId	varchar(30)	The user ID/client ID under dealer.	Test R1-T9065
5	BackOfficeId	varchar(30)	The user ID/client ID under dealer.	Test R1-T9065
6	Status	varchar	This field contain the status of user. Active = 1 Inactive = 2 Suspended = 3	1
7	Type	varchar	This field contain the type of user. Normal = 1 Employee/Dealer= 2 Administrator= 3 NRI = 4	1
8	CreatedAt	datetime(8)	Client created time.	2017-10-18 23:21:34.713
9	Flag	char(1)	Flag	Y or N
10	Filler	Filler	Filler	Filler
11	AdminUsId	Filler	The user ID/client ID who has logged in.	Client-T9065

1.1.144 Exchange/Market status request

Message Name	**ExchangeStatus**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to **know Exchange and Market status .**

Field Name	**Type**	**Description**	**Values, meanings, Validations**
SessionKey	varchar(62)	Unique key for identify user session	768532033-01028085
Thick Client	char(1)	Thick Client	Y

1.1.145 Exchange/Market status reply

Message Name	**ExchangeStatus**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **Exchange and Market status**. The reply message contains the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum Number of Records	4	HTTP Response	
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	Status of request	varchar	Exchange status details	BSE|Currency|3|2019-12-26~
Record2	Status of request	varchar	Exchange status details	NSE|Derivative|3|2019-12-26~

Detail Description of Record1: Exchange status details

Sr.No.	Field Name	Type	Description	Values, meanings, Validations
Record1:Field1	Market ID	int	Exchange ID	1 For details Refer to Appendix section 1.1
Record1:Field2	Exchange ID	varchar	Market ID	2 For details Refer to Appendix section 1.1
Record1:Field3	Status	varchar	Exchange Status If Field3=3 then Open otherwise Close.	3
Record1:Field4	Current date	varchar	Current date	2019-12-26~

Security / Contract Information

Exchange-Segment wise Scrip/Contract Search and details request is available. If Scrip/Contract Master is not stored in application then first Search request to be sent and subsequently detail request to be sent. New messages will be added in this section on addition of new Market segment.

1.1.146 BSE Equity Search Request

Message Name	**SecuritiesSearch**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to see **BSE Equity security details.**

Field Name	Type	Description	Values, meanings, Validations
symbol	varchar(30)	Unique symbol defined for each asset	ACC
exchange	int	Exchange name	For details Refer to Appendix section 1.1
SessionKey	varchar(62)	Unique key for identify user session	530138234-01119170170
Thick Client	char(1)	Thick client	Y

1.1.147 BSE Equity Search Reply

Message Name	**SecuritiesSearch**
Type of Message	HTTP Response
Description	This is the reply message sent in response to see **BSE Equity details** request. The reply message contains the symbol and the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum number of Records	2		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	Int	Successful=0 Failed=1	0
Record1:Field2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
Record1:Field3	Number of records	int	Number of records	2
Record2	Column Data	varchar	Data as per column header	244|ACC|ACC LTD|EQ||244|

Detail Description of Record 2: Column Data

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Token no	bigint	The token number of the contract. This is internal token number received in scrip/contract master.	244
2	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	ACC
3	Company name	varchar(50)	Company name	ACC LTD
4	Series	char(2)	Series ID for security	EQ/BE
5	Filler	Filler	Filler	Filler
6	Token no		The token number of the contract. This is internal token number received in scrip/contract master.	244

1.1.148 BSE Equity Security Details Request

Message Name	**GetSecurityDetail**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to see **Equity security Details.**

Field Name	Type	Description	Values, meanings, Validations
SCID	bigint	Script ID	100019
ISIN	varchar(50)	ISIN number of Security	INE012A01025
EXCHANGE	bigint	Exchange ID	1
SessionKey	varchar(62)	Unique key for identify user session	1360037749-03279284230281285285
Thick Client	char(1)	Thick client	Y

1.1.149 BSE Equity Security Details Reply

Message Name	**GetSecurityDetail**
Type of Message	HTTP Response
Description	This is the reply message sent in response to see **equity security Details** request. The reply message contains the contract id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum number of records	8		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	int	Successful=0 Failed=1	0
Record1:Field2	Error Details	varchar	If Field1= 1 then error message otherwise blank	blank
Record2	Number of data records	int	Number of order	2
Record3	Column Headers	varchar	Blank	SCID|SCSymbol|SCSeries|SCCompanyName|SCCorporateAction|SCCAStartDate|SCCAEndDate|SCBuyBack|SCPermissions|SCNSEBTST|SCBSEBTST|SCCreatedBy|SCCreatedAt|SCLastUpdatedBy|SCLastUpdatedAt|SCFIELD1|SCFIELD2|SCFIELD3|SCFIELD4|SCROWSTATE|
Record4	Column Data	varchar	Data per Column header	3496|RAMSARUP|EQ|RAMSARUP INDUSTRIES LTD.||18-09-2017 00:00:00:000|23-09-2017 00:00:00:000||0|||1|24-07-2018 12:18:11:443|1|24-07-2018 12:18:11:443|||INE005D01015|1|1|7|21|
Record5	NSE Column Headers	varchar	Blank	NSCID|NSCTimestamp1|NSCToken|NSCSymbol|NSCSeries|NSCInstrumentType|NSCPermittedToTrade|NSCIssuedCapital|NSCWarningPercent|NSCFreezePercent|NSCCreditRating|NSCNormalEligibility|NSCNormalStatus|NSCOddlotEligibility|NSC

				OddlotStatus| NSCSpotEligibility|NSCSpotStatus| NSCAuctionEligibility|NSCAuctionStatus| NSCIssueRate|NSCIssueStartDate| NSCInterestPayment|NSCIssueMaturityDate| NSCBoardLotQuantity|NSCTickSize| NSCName|NSCListingDate| NSCExpulsionDate| NSCReAdmissionDate|NSCRecordDate| NSCExpiryDate| NSCNoDeliveryStartDate| NSCNoDeliveryEndDate| NSCEligibilityIndicators| NSCBookClosureStartDate| NSCBookClosureEndDate| NSCPurpose|NSCLocalUpdateTime| NSCDeleteFlag|NSCRemarks| NSCParticipateInIndex|NSCAON| NSCMinimumFill|NSCDividend| NSCRights|NSCBonus| NSCInterest|NSCAGM|NSCEGM| NSCFaceValue|NSCSCID| $User$|NSCCreatedAt|$User$| NSCLastUpdatedAt|NSCFIELD1| NSCFIELD2|NSCFIELD3| NSCFIELD4|NSCROWSTATE|
Record6	Blank	Blank	Blank	blank

Record7	BSE Column Header	varchar	Blank	BSCID|BSCScripCode|BSCSCID|BSCBoardLot|BSCBroadcast|BSCAdditionalVolatilityFlag|BSCAdditionalVolatilityBuyMargin|BSCAdditionalVolatilitySellMargin|BSCScriptId|BSCScriptName|BSCGroupName|BSCNonDisclosureFlag|BSCNonDisclosureStartDate|BSCNonDisclosureEndDate|BSCSuspendedStatus|BSCBuySpecificationMargin|BSCSellSpecificationMargin|BSCDividend|BSCBitWiseInfo|BSCSpotStartDate|BSCSpotEndDate|BSCExDateR|BSCExDateB|BSCExDateD|BSCISIN|BSCDividendFinancialYear|BSCBookClosureStartDate|BSCBookClosureEndDate|BSCRecordDate|BSCRating|BSCBuyMarginFlag|BSCSellMarginFlag|BSCFaceValue|$User$|BSCCreatedAt|$User$|BSCLastUpdatedAt|BSCFIELD1|BSCFIELD2|BSCFIELD3|BSCFIELD4|BSCROWSTATE|
Record8	BSE Column Data	varchar	Data per Column header	3496|532690|3496|1|0||||RAMSARUP|RAMSARUP INDUSTRIES LTD.(Normal CallAuction)|Z|0 |||0|100.00|100.00|||||||INE005D01015||18-09-2017|23-09-2017|||||10.00|2|02:03:51 PM|2|01:02:05 AM|1||90|1|1|7|21|

Detail Description of Record 3: Column Headers

Field No	Field Name	Type	Description	Values, meanings, Validations
1	SCID	bigint	Contract/Security internal ID	244
2	SCSymbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	ACC
3	SCSeries	char(2)	Unique Series Id	EQ
4	SCCompanyName	varchar(62)	Company name	ACC LTD
5	SCCorporateAction	varchar(1000)	Corporate action	Blank
6	SCCAStartDate	datetime(50)	This field contains the date of issue of the security.	21-05-2018 00:00:00:000
7	SCCAEndDate	datetime(50)	Last date of the security.	25-05-2018 00:00:00:000
8	SCBuyBack	bigint	Share repurchase (or stock buyback) is the re-acquisition by a company of its own stock.	Blank
9	SCPermissions	bigint	Blank	0
10	SCNSEBTST	bigint	NA	Blank
11	SCBSEBTST	bigint	NA	Blank
12	SCCreatedBy	bigint	NA	1
13	SCCreatedAt	datetime(8)	Contract created time.	27-07-2018 16:40:37:337
14	SCLastUpdatedBy	bigint	NA	1
15	SCLastUpdatedAt	datetime(8)	Contract last updated time.	27-07-2018 16:40:37:337
16	SCFIELD1	Filler	Filler	Filler
17	SCFIELD2	Filler	Filler	Filler
18	SCFIELD3	bigint	ISIN number of security	INE012A01025
19	SCFIELD4	bigint	blank	100
20	SCROWSTATE	bigint	Rowstate	1

Detail Description of Record 7: BSE Column Headers

Field No	Field Name	Type	Description	Values, meanings, Validations
1	BSCID	bigint	Internal ID	1
2	BSCScripCode	bigint	Contract/Scrip code	500002
3	BSCSCID	bigint	Unique scrip ID	1
4	BSCBoardLot	bigint	This field contains the board lot quantity. The regular lot order quantity must be a multiple of this quantity.	1

5	BSCBroadcast	bigint	NA	0
6	BSCAdditionalVolatilityFlag	Filler	Filler	Filler
7	BSCAdditionalVolatilityBuyMargin	Filler	Filler	Filler
8	BSCAdditionalVolatilitySellMargin	Filler	Filler	Filler
9	BSCScriptId	varchar(30)	Unique symbol / Asset Code defined for each asset.	ABB
10	BSCScriptName	varchar(30)	Symbol name	ABB INDIA LIMITED(Normal CallAuction)
11	BSCGroupName	varchar(6)	Equity trading group	A
12	BSCNonDisclosureFlag	bigint	Filler	0
13	BSCNonDisclosureStartDate	datetime(8)	Disclosure StartDate	28-06-2007
14	BSCNonDisclosureEndDate	datetime(8)	Disclosure EndDate	05-07-2007
15	BSCSuspendedStatus	bigint	Suspended status	0
16	BSCBuySpecificationMargin	bigint	Buy margin	12.5
17	BSCSellSpecificationMargin	bigint	Sell Margin	12.5
18	BSCDividend	Filler	Filler	Filler
19	BSCBitWiseInfo	Filler	Filler	Filler
20	BSCSpotStartDate	Filler	Filler	Filler
21	BSCSpotEndDate	Filler	Filler	Filler
22	BSCExDateR	datetime(8)	ExDateR	
23	BSCExDateB	datetime(8)	ExDateB	
24	BSCExDateD	datetime(8)	ExDateD	27-04-2018
25	BSCISIN	bigint	ISIN number of security	INE117A01022
26	BSCDividendFinancialYear	bigint	Filler	Filler
27	BSCBookClosureStartDate	datetime(8)	The date from when physical delivery of share certificates is stopped for book closure.	03-05-2018
28	BSCBookClosureEndDate	datetime(8)	The date from when physical delivery of share certificates starts after book closure.	09-05-2018

29	BSCRecordDate	datetime(8)	The number of records sent for updation.	Blank
30	BSCRating	bigint	The credit rating of the security.	Blank
31	BSCBuyMarginFlag	bigint	NA	Blank
32	BSCSellMarginFlag	bigint	NA	Blank
33	BSCFaceValue	bigint	Face value of security.	2
34	$User$	bigint	NA	2
35	BSCCreatedAt	datetime(8)	Contract created time.	14:03:44
36	$User$	bigint	NA	2
37	BSCLastUpdatedAt	datetime(8)	Contract last updated time.	03:10:09
38	BSCFIELD1	bigint	Field1	5
39	BSCFIELD2	bigint	Field2	Blank
40	BSCFIELD3	bigint	Field3	90
41	BSCFIELD4	bigint	Field4	100
42	BSCROWSTATE	bigint	Rowstate	1

1.1.150 BSE Derivative Contract Search Request

Message Name	**BSEContractsSearch**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to see **derivative contract details for specified Contract.**

Field Name	Type	Description	Values, meanings, Validations
symbol	varchar(30)	Unique symbol defined for each asset	ALS
instrumenttype	varchar(50)	Instrumenttype	FUTIDX
expirydate	datetime(8)	This date is the actual last trading date of the Product	-1
optiontype	char(2)	This field contains the option type. CALL= CE PUT = PE	Future Contract=Blank Option Contract = CE/PE
contractId	bigint	Contract internal number	18510

SessionKey	varchar(62)	Unique key for identify user session	530138234-01119170170
Thick Client	char(1)	Thick client	Y

1.1.151 BSE Derivative Contract Search Reply

Message Name	**BSEContractsSearch**
Type of Message	HTTP Response
Description	This is the reply message sent in response to see **derivative contract details** request. The reply message contains the Contract id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum number of Records**	**2**		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	Int	Successful=0 Failed=1	0
Record 1:Field2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
Record 1:Field3	Number of data records	int	Number of data records	1
Record 2	Column Data	varchar	Data as per column header	18510|829676|FUTIDX|829676|19 Sep 2018|-0.01|XX|1537315200

Detail Description of Record 2: Column Data

Field No	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
1	ContractID	bigint	Internal Contract ID	18510
2	Token	bigint	Internal token no	1009283
3	InstrumentType	varchar(10)	Type of the instrument.	FUTIDX
4	ScriptID	bigint	Contract internal ID	829676
5	ExpiryDate	datetime(8)	This date is the actual last trading date of the Product. DD-DD-MMM-YY	19-Sep-18
6	StrikePrice	bigint	Strike price of option contract.	Future contract= -0.01 Commodity, Derivatives Options Contract =

				Strike price *100 Currency Option Contract =Strike Price * 10000
7	OptionType	varchar(2)	This field contains the option type. CALL= CE PUT = PE	Future Contract= XX Option Contract = CE/PE
8	ExpiryDate	datetime(8)	This date is the actual last trading date in seconds of Product	1537315200

1.1.152 BSE Derivative Contract Details Request

Message Name	**ListBSEContract**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to see **derivative contract details.**

Field Name	Type	Description	Values, meanings, Validations
BCNID	bigint	Internal id	33
SessionKey	varchar(62)	Unique key for identify user session	530138234-01119170170
Thick Client	char(1)	Thick client	Y

1.1.153 BSE Derivative Contract Details Reply

Message Name	**ListBSEContract**
Type of Message	HTTP Response
Description	This is the reply message sent in response to see **derivative contract details** request. The reply message contains the Contract id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum number of records**	**4**		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	Int	Successful=0 Failed=1	0
Record1:Field2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
Record2	Number of data records	int	Number of data records	1

Record3	Column Header	varchar	Blank	BCNId|BCNSequenceId|BCNInstrumentType|BCNProductId|BCNProductType|BCNProductCode|BCNAssetId|BCNAssetCode|BCNAssetType|BCNScriptId|BCNToken|BCNSeriesType|BCNSeriesName|BCNMultiplier|BCNMarketLot|BCNCeilingDepth|BCNCallPut|BCNOptionStyle|BCNStrikePrice|BCNNearMonthSeriesId|BCNFarMonthSeriesId|BCNStartDate|BCNExpiryDate|BCNContractMonth|BCNDecimalLocator|BCNSeriesCode|BCNSettlementType|BCNPqFactor|BCNTradingUnit|BCNTickSize|BCNCreatedBy|BCNCreatedAt|BCNLastUpdatedBy|BCNLastUpdatedAt|BCNField1|BCNField2|BCNField3|BCNField4|BCNRowState|
Record4	Column Data	varchar	Data per order	18510|18510|FUTIDX|657|M|ALSFUT |51|ALS|0|829676|829676||ALS18SEPFUT|1|15|-999|||-1|-999|-999|1506038400|1537315200||2|ALSSEP2018||350||100|2|10:48:42 AM|2|01:40:44 AM|0||ALS|46130-56381|1|

Detail Description of Record 3: Column Header

Field No	Field Name	Type	Description	Values, meanings, Validations
1	BCNId	bigint	Internal ID	18510
2	BCNSequenceId	bigint	Contract sequence ID	18510
3	BCNInstrumentType	varchar(10)	The type of the instrument.	FUTIDX
4	BCNProductId	bigint	Product ID	657
5	BCNProductType	bigint	Product type	M
6	BCNProductCode	bigint	Product code	ALSFUT
7	BCNAssetId	bigint	Asset ID	51
8	BCNAssetCode	varchar(50)	Unique symbol / Asset Code defined for each asset.	ALS
9	BCNAssetType	bigint	Asset type	0
10	BCNScriptId	bigint	Contract/scrip id	829676
11	BCNToken	bigint	Contract internal token	829676

12	BCNSeriesType	bigint	Series type	blank
13	BCNSeriesName	varchar(150)	Symbol unique name with expiry date.	ALS18SEPFUT
14	BCNMultiplier	bigint	Multiplier	1
15	BCNMarketLot	bigint	Market lot	15
16	BCNCeilingDepth	bigint	Ceiling depth	0
17	BCNCallPut	char(2)	Option Type	Future contract= blank Option Contract = C/P
18	BCNOptionStyle	char(2)	This field contains the option type. CALL= CE PUT = PE	Future contract= blank Option Contract = CE/PE
19	BCNStrikePrice	bigint	Strike price of option contract.	Future contract= -1 Commodity, Derivatives Options Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
20	BCNNearMonthSeriesId	bigint	Near month contract ID	-999
21	BCNFarMonthSeriesId	bigint	Far month Contract ID	-999
22	BCNStartDate	datetime(8)	Start date of the contract in seconds.	1506038400
23	BCNExpiryDate	datetime(8)	This date is the actual last trading date of the Product(in seconds)	1537315200
24	BCNContractMonth	bigint	Contract month as defined for the contract.	0
25	BCNDecimalLocator	bigint	Precision(value of decimal locator)	2
26	BCNSeriesCode	bigint	SeriesCode	ALSSEP2018
27	BCNSettlementType	bigint	Settlement type	Blank
28	BCNPQFactor	bigint	PQ factor	350
29	BCNTradingUnit	bigint	TradingUnit	Blank
30	BCNTickSize	bigint	Tick size/ Min spread size	100
31	BCNCreatedBy	bigint	Contract created User ID.	2
32	BCNCreatedAt	datetime(8)	Contract created time.	10:48:42 AM
33	BCNLastUpdatedBy	bigint	Updated last contract user ID.	2
34	BCNLastUpdatedAt	datetime(8)	Contract last updated time.	01:27:33
35	BCNField1	filler	filler	0
36	BCNField2	filler	filler	Filler
37	BCNField3	bigint	blank	46341-56640

38	BCNField4	bigint	Symbol or Index	ALS
39	BCNRowState	bigint	RowState	1

1.1.154 BSE Commodity Contract Search Request

Message Name	**BSECommodityContractSearch**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to see **commodity contract details.**

Field Name	Type	Description	Values, meanings, Validations
symbol	varchar(30)	Unique symbol defined for each asset	COPPER
instrumenttype	varchar(10)	instrumenttype	FUTCOM
expirydate	bigint	This date is the actual last trading date of the Product in seconds.	e.g. 1553731200
optiontype	char(2)	This field contains the option type. CALL= CE PUT = PE	Futures= Blank Option Contract = CE/PE
contractId	bigint	Internal number	645
SessionKey	varchar(62)	Unique key for identify user session	530138234-01119170170
Thick Client	char(1)	Thick client	Y

1.1.155 BSE Commodity Contract Search Reply

Message Name	**BSECommodityContractSearch**
Type of Message	HTTP Response
Description	This is the reply message sent in response to see **commodity contract details** request. The reply message contains the Contract id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum number of records**	**2**		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	Int	Successful=0 Failed=1	0
Record1:Field2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
Record1:Field3	Number of data records	int	Number of data records	1
Record2	Column Data	varchar	Data per order	7|1400004|FUTCOM|GOLD|02 Aug 2018|-0.01|

Detail Description of Record 2: Column Data

Field No	Field Name	Type	Description	Values, meanings, Validations
1	ContractID	bigint	Internal Contract ID	7
2	Token	bigint	Internal token no	1400004
3	InstrumentType	varchar(10)	This field contains the type of the instrument.	FUTCOM
4	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	GOLD
5	ExpiryDate	datetime(8)	This date is the actual last trading date of the Product. DD-MMM-YYYY	02-Aug-2018
6	StrikePrice	bigint	Strike price of option contract.	Future contract= -0.01 Commodity, Derivatives Options Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
7	OptionType	varchar(2)	This field contains the option type. CALL= CE PUT = PE	Future contract= Blank Option Contract = CE/PE

1.1.156 BSE Commodity Contract Details Request

Message Name	**ListBSECommodityContracts**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to see **commodity contract details.**

Field Name	Type	Description	Values, meanings, Validations
BCCID	bigint	Contract internal id	645
SessionKey	varchar(62)	Unique key for identify user Session	1542736345-03164169115166170170
Thick Client	char(1)	Thick client	Y

1.1.157 BSE Commodity Contract Details Reply

Message Name	ListBSECommodityContracts
Type of Message	HTTP Response
Description	This is the reply message sent in response to see **commodity contract details** request. The reply message contains the Contract id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum number of records	4		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	Int	Successful=0 Failed=1	0
Record1:Field2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
Record2	Number of data records	int	Number of data records	1
Record3	Column Header	varchar	Column Header	BCCID|BCCSequenceId|BCCInstrumentName|BCCInstrumentId|BCCToken|BCCUnderlyingAsset|BCCContractCode|BCCStrikePrice|BCCOptionType|BCCCommodityAsset|BCCCommodityGroup|BCCExpiryDate|BCCBasePrice|BCCContractDescription|BCCQuotationUnit|BCCMaxOrderValue|BCCMaxOrderQuantity|BCCField4|BCCQuotationMetric|BCCBoardLot|BCCPriceTick|BCCNearMonthContract|BCCFarMonthContract|BCCStartDate|BCCEndDate|BCCTenderStartDate|BCCTenderEndDate|BCCDeliveryStartDate|BCCDeliveryEndDate|BCCMarginIndicator|BCCRegularBuyMargin|BCCRegularSellMargin|BCCSpecialBuyMargin|BCCSpecialSellMargin|BCCTenderBuyMargin|BCCTenderSellMargin|BCCDeliveryBuyMargin|BCCDeliverySellMargin|BCCLimitForAllClient|BCCLimitOnlyAllClient|BCCLimitOnlyAllOwn|BCCLimitPerClient|B

				CCLimitPerOwn|BCCDeleted|BCCRemarks|BCCCreatedBy|BCCCreatedAt|BCCLastUpdatedBy|BCCLastUpdatedAt|BCCPriceNumerator|BCCPriceDenominator|BCCGeneralNumerator|BCCGeneralDenominator|BCCContractSize|BCCTickSize|BCCLotNumerator|BCCLotDenominator
Record4	Column Data	varchar	Data as per column header	7|7|FUTCOM|1400004|1400004|800|GOLD|||GOLD|PRECIOUS METAL|03 Aug 2018|29378.00|EX-AHMEDABAD|10|0|10|0|GRMS|1|100.00|0|0|16 Aug 2017|03 Aug 2018|01 Aug 2018|06 Aug 2018|01 Aug 2018|06 Aug 2018|0|0|0|0|0|0|0|0|0|0|0|0|0|0|N|GOLD.995 EX-AHMEDABAD|2|09:17:24 AM|0||1|1|100|1|100.00|1.0000|1|1|

Detail Description of Record 3: Column Header

Field No	Field Name	Type	Description	Values, meanings, Validations
1	BCCID	bigint	Contract internal ID	7
2	BCCSequenceId	bigint	Contract sequence ID	7
3	BCCInstrumentName	varchar(10)	Type of the instrument.	FUTCOM
4	BCCInstrumentId	bigint	Contract Instrument ID	1400004
5	BCCToken	bigint	Contract internal ID	1400004
6	BCCUnderlyingAsset	bigint	ID of the Instrument for the underlying asset of this contract.	800
7	BCCContractCode	varchar(30)	Unique symbol / Asset Code defined for each asset.	GOLD
8	BCCStrikePrice	bigint	Strike price of option contract.	Future contract= - Blank Commodity, Derivatives Options Contract = Strike price *100 Currency Option

				Contract =Strike Price * 10000
9	BCCOptionType	char(2)	This field contains the option type. CALL= CE PUT = PE	Future contract= Blank Option Contract = CE/PE
10	BCCCommodityAsset	varchar(30)	Unique symbol / Asset Code defined for each asset.	GOLD
11	BCCCommodityGroup	varchar(30)	Commodity Group(Group name depend on contract code)	COPPER=BASE METAL BRTCRUDE=ENERGY
12	BCCExpiryDate	datetime(8)	This date is the actual last trading date of the Product. DD-MMMYYYY format	03-08-2018
13	BCCBasePrice	bigint	The base price of the stock.	29378
14	BCCContractDescription	varchar(30)	Contract details	EX-AHMEDABAD
15	BCCQuotationUnit	bigint	Unit in which underlying asset is quoted.	10
16	BCCMaxOrderValue	bigint	This field contain max order value.	0
17	BCCMaxOrderQuantity	bigint	Maximum order quantity	10
18	BCCField4	varchar(300)	blank	0
19	BCCQuotationMetric	varchar(30)	Quotation metric	GRMS
20	BCCBoardLot	bigint	The board lot quantity. The regular lot order quantity must be a multiple of this quantity.	1
21	BCCPriceTick	bigint	The tick size. The order price, and the trigger price - if applicable, must be a multiple of this tick size.	100
22	BCCNearMonthContract	bigint	Contract near month contract ID	0
23	BCCFarMonthContract	bigint	Contract far month Contract ID	0
24	BCCStartDate	datetime(8)	Start date of the contract. e.g. 16-DEC2018. DD-MMM-YYYY format	16-Aug-18
25	BCCEndDate	datetime(8)	Last trading date of the contract. e.g. 05DEC-2018. DD-MMM-YYYY format.	03-Aug-18
26	BCCTenderStartDate	datetime(8)	Start date of the tender period. Not applicable for options & spreads & underlying. E.g. 01-DEC-	01-08-2018

			2018. DD-MMMYYYY format.	
27	BCCTenderEndDate	datetime(8)	Last date of the tender period. Not applicable for options & spreads & underlying. E.g. 06-DEC-2018. DD-MMMYYYY format.	06-08-2018
28	BCCDeliveryStartDate	datetime(8)	Start date of the delivery period. Not applicable for options & spreads & underlying. e.g. 01-DEC-2018. DD-MMMYYYY format	01-08-2018
29	BCCDeliveryEndDate	datetime(8)	Last date of the delivery period. Not applicable for options & spreads & underlying. e.g. 06-DEC-2018. DD-MMMYYYY format	06-08-2018
30	BCCMarginIndicator	bigint	Filler	0
31	BCCRegularBuyMargin	varchar(20)	Filler	0
32	BCCRegularSellMargin	varchar(20)	Filler	0
33	BCCSpecialBuyMargin	varchar(20)	Filler	0
34	BCCSpecialSellMargin	varchar(20)	Filler	0
35	BCCTenderBuyMargin	varchar(20)	Filler	0
36	BCCTenderSellMargin	varchar(20)	Filler	0
37	BCCDeliveryBuyMargin	varchar(20)	Filler	0
38	BCCDeliverySellMargin	varchar(20)	Filler	0
39	BCCLimitForAllClient	varchar(20)	Filler	0
40	BCCLimitOnlyAllClient	varchar(20)	Filler	0
41	BCCLimitOnlyAllOwn	varchar(20)	Filler	0
42	BCCLimitPerClient	varchar(20)	Filler	0
43	BCCLimitPerOwn	varchar(20)	Filler	0
44	BCCDeleted	char(1)	This will contain one of the following values to denote whether the contract is deleted or not.	Contract is active=N Contract is deleted=Y
45	BCCRemarks	varchar(25)	Product level description which will have purity/ Quality defined.	GOLD.995 EX-AHMEDABAD
46	BCCCreatedBy	bigint	NA	2
47	BCCCreatedAt	datetime(8)	Contract created time.	09:17:24
48	BCCLastUpdatedBy	bigint	NA	0
49	BCCLastUpdatedAt	datetime(8)	Contract last updated time.	blank
50	BCCPriceNumerator	bigint	Price Numerator to be used for deriving the Value.	1
51	BCCPriceDenominator	bigint	Price Denominator to be used for deriving the Value.	1
52	BCCGeneralNumerator	bigint	General Numerator to be used for deriving the Value.	100

53	BCCGeneralDenominator	bigint	General Denominator to be used for deriving the Value.	1
54	BCCContractSize	bigint	Contract Size	100
55	BCCTickSize	bigint	Tick size of the product.	1
56	BCCLotNumerator	bigint	Lot Numerator to be used for deriving the trade Value.	1

1.1.158 BSE Currency Contract Search Request

Message Name	**NTACurrencyContractsSearch**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to see **currency contract details.**

Field Name	Type	Description	Values, meanings, Validations
symbol	varchar(30)	Unique symbol defined for each asset	EURJULAUG18
instrumenttype	varchar(10)	Instrument type	FUTCUR
expirydate	datetime(8)	This date is the actual last trading date of the Product.	-1
optiontype	varchar(2)	This field contains the option type. CALL= CE PUT = PE	Future Contract= Blank Option Contract = CE/PE
contractId	bigint	contract internal number	84541
SessionKey	varchar(62)	Unique key for identify user session	530138234-01119170170
Thick Client	char(1)	Thick client	Y

1.1.159 BSE Currency Contract Search Reply

Message Name	**NTACurrencyContractsSearch**
Type of Message	HTTP Response
Description	This is the reply message sent in response to see **currency contract details** request. The reply message contains the Contract id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum number of records**	**2**		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	Int	Successful=0 Failed=1	0
Record1:Field2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
Record1:Field3	Number of data records	int	Number of data records	1

Record2	Column Data	varchar	Data as per column header	270|1009283|FUTCUR|EURINR|27 Jul 2018|-0.01|XX

Detail Description of Record 2: Column Data

Field No	Field Name	Type	Description	Values, meanings, Validations
1	ContractID	bigint	Internal Contract ID	270
2	Token	bigint	Internal token no	1009283
3	InstrumentType	varchar(50)	This field contains the type of the instrument.	FUTCUR
4	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	EURINR
5	ExpiryDate	datetime(8)	This date is the actual last trading date of the Product. DD-MMM-YYYY	27-Jul-18
6	StrikePrice	bigint	Strike price of option contract.	Future contract= -0.01 Commodity, Derivatives Options Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
7	OptionType	char(2)	This field contains the option type. CALL= CE PUT = PE	Future Contract=XX Option Contract = CE/PE

1.1.160 BSE Currency Contract Details Request

Message Name	**ListNTACurrencyContracts**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to see **Currency contract details.**

Field Name	Type	Description	Values, meanings, Validations
BCCID	bigint	Contract internal id	84541
SessionKey	varchar(62)	Unique key for identify user session	530138234-01119170170
Thick Client	char(1)	Thick client	Y

1.1.161 BSE Currency Contract Details Reply

Message Name	ListNTACurrencyContracts
Type of Message	HTTP Response
Description	This is the reply message sent in response to **currency contract details** see request. The reply message contains the Contract id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum number of records	3		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	Int	Successful=0 Failed=1	0
Record1:Field2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
Record2	Number of data records	int	Number of data records	1
Record3	Column Header	varchar	Blank	BCCID|BCCSequenceId|BCCInstrumentType|BCCProductId|BCCProductType|BCCProductCode|BCCAssetId|BCCAssetCode|BCCAssetType|BCCScriptId|BCCToken|BCCSeriesType|BCCSeriesName|BCBCCULTIPLIER|BCCMarketLot|BCCCeilingDepth|BCCCallPut|BCCOptionStyle|BCCStrikePrice|BCCNearMonthSeriesId|BCCFarMonthSeriesId|BCCStartDate|convert(varchar(11), Dateadd(s,(dbo.Fn_GetExpiry(BCCExpiryDate,1,4)),'jan 1 1980'),109) BCCExpiryDate|BCCContractMonth|BCCDecimalLocator|BCCSeriesCode|BCCSettlementType|BCCPQFactor|BCCExpirationTime |BCCTickSize|BCCCreatedBy|BCCCreatedAt|BCCLastUpdatedBy|BCCLastUpdatedAt
Record4	Column Data	varchar	Data as per column header	98315|98315|FUTCUR|68|S||0|GBPUSDNOVFEB19|E|72057886095704298|1017593||GBPUSDNOVFEB19|67.0543|1000|0|||-1|1010825|1011551|0|1543363200||0||5|1|12:00:00|1000|2|12:44:19 AM|2|04:08:54 PM|0|||65.2700-69.3000|1|67.05|

Detail Description of Record 3: Column Header

Field No	Field Name	Type	Description	Values, meanings, Validations
1	BCCID	bigint	Contract internal ID	98315
2	BCCSequenceId	bigint	Contract sequence ID	98315
3	BCCInstrumentType	varchar(10)	Instrument Type	FUTCUR
4	BCCProductId	bigint	Product ID	68
5	BCCProductType	bigint	Product type	Spread contract=S M or Q
6	BCCProductCode	bigint	Product code	blank
7	BCCAssetId	bigint	Asset ID	0
8	BCCAssetCode	bigint	Unique symbol defined for each asset with expiry date	GBPUSDNOVFEB19
9	BCCAssetType	bigint	Asset type	0
10	BCCScriptId	bigint	Contract/scrip ID	7.20579E+16
11	BCCToken	bigint	Internal token no	1017593
12	BCCSeriesType	bigint	Blank	Blank
13	BCCSeriesName	bigint	Unique symbol defined for each asset with expiry date	GBPUSDNOVFEB19
14	BCBCCULTIPLIER	bigint	Multiplier	67.0543
15	BCCMarketLot	bigint	The regular lot order quantity must be a multiple of this quantity.	1000
16	BCCCeilingDepth	bigint	Ceiling depth	0
17	BCCCallPut	char(2)	Option Type	Future Contract= Blank Option Contract = C/P
18	BCCOptionStyle	char(2)	This field contains the option type. CALL= CE PUT = PE	Future Contract= Blank Option Contract = CE/PE
19	BCCStrikePrice	bigint	Strike price of option contract.	Future contract= -0.01 Commodity, Derivatives Options Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
20	BCCNearMonthSeriesId	bigint	Contract near month contract ID.	1010825
21	BCCFarMonthSeriesId	bigint	Contract far month Contract ID.	1011551
22	BCCStartDate	datetime(8)	Start date of the contract.	0
23	BCCExpiryDate	datetime(8)	This date is the actual last trading date (in seconds) of	1543363200

			the Product.	
24	BCCContractMonth	bigint	Contract month as defined for the contract.	0
25	BCCDecimalLocator	bigint	Precision(value of decimal locator)	0
26	BCCSeriesCode	bigint	blank	blank
27	BCCSettlementType	bigint	Settlement type	5
28	BCCPQFactor	bigint	PQ factor	1
29	BCCExpirationTime	datetime(8)	The expiry time of the contract.	12:00:00
30	BCCTickSize	bigint	The tick size. The order price, and the trigger price - if applicable, must be a multiple of this tick size.	1000
31	BCCCreatedBy	bigint	NA.	2
32	BCCCreatedAt	datetime(8)	Contract created time.	00:44:19
33	BCCLastUpdatedBy	bigint	NA	2
34	BCCLastUpdatedAt	datetime(8)	Contract last updated time.	16:08:54

1.1.162 BSE Repo Contract Search Request

Message Name	BSERepoContractSearch
Type of Message Request	HTTP
Description	This request message is sent by the TPS to the BOW when the user wants to see **Repo contract Details.**

Field Name	Type	Description	Values, meanings, Validations
symbol	varchar(30)	Unique symbol defined for each asset	CBAAAPSU10TO20
expirydate	datetime(8)	This date is the actual last trading date of the Product.	-1
optiontype	varchar(2)	This field contains the option type. T0/T1	Repo = Settlement Type
contractId	bigint	Contract internal number	2230
SessionKey	varchar(62)	Unique key for identify user session	1542736345-03164169115166170170
Thick Client	char(1)	Thick client	Y

1.1.163 BSE Repo Contract Search Reply

Message Name	BSERepoContractSearch
Type of Message	HTTP Response
Description	This is the reply message sent in response to **Repo contract Details** see request. The reply message contains the Contract id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum number of records	2		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	int	Successful=0 Failed=1	0
Record1:Field2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
Record1:Field3	Number of data records	int	Number of data records	1
Record2	Column Data	varchar	Data as per column header	3519|1609546|T0|CBAAAPSU10TO20|26 Jul 2018

Detail Description of Record 2: Column Data

Field No	Field Name	Type	Description	Values, meanings, Validations
1	ContractID	bigint	Internal ID	3519
2	Token	bigint	Internal token no	1609546
3	Settlement Type	Varchar(50)	Settlement Type T0 or T1	T0
4	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	CBAAAPSU10TO20
5	ExpiryDate	datetime(8)	This date is the actual last trading date of the Product. DD-MMM-YYYY	26-Jul-18

1.1.164 BSE Repo Contract Details Request

Message Name	ListBSERepoContracts
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to see **Repo contract details.**

Field Name	Type	Description	Values, meanings, Validations
BRCID	bigint	Contract internal id	2230
SessionKey	varchar(62)	Unique key for identify user session	1542736345-03164169115166170170
Thick Client	char(1)	Thick client	Y

1.1.165 BSE Repo Contract Details Reply

Message Name	ListBSERepoContracts
Type of Message	HTTP Response
Description	This is the reply message sent in response to see **Repo contract details** request. The reply message contains the Contract id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum number of records	4		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	int	Successful=0 Failed=1	0
Record1:Field2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
Record2	Number of data records	int	Number of data records	1
Record3	Column Header	varchar	Blank	BRCId|BRCToken|BRCSymbol|BRCBasketId|BRCTransferable|BRCRepoTenure|BRCIssuerType|BRCTickSize|BRCMarketLot|BRCMultiplierLotSize|BRCMaxOrderSize|BRCSettlementType|BRCStartDate|BRCStartTime|BRCDecimalLocator|BRCEndDate|BRCEndTime|BRCMaturityDate|BRCUpperPriceBand|BRCLowerPriceBand|BRCGroupId|BRCProductId|BRCPartitionId|BRCTradingStatus|BRCSecurityType|BRCCreatedAt|BRCCreatedBy|BRCLastUpdatedAt|BRCLastUpdatedBy|BRCRowState|
Record4	Column Data	varchar	Data as per	3519|1609546|CBAAAPSU1

			column header	0TO20|3|NT|1|PSU|0.01|1|100000|999999999|T0|26 Jul 2018|1532595600|2|26 Jul 2018|1532610000|27 Jul 2018|20.00|2.00|1|74|1|A |CB|01:13:55 AM|2||0|1|0.0100|

Detail Description of Record 3: Column Data

Field No	Field Name	Type	Description	Values, meanings, Validations
1	BRCId	bigint	Contract ID	3519
2	BRCToken	bigint	Contractinternal ID	1609546
3	BRCSymbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	CBAAAPSU10TO20
4	BRCBasketId	bigint	Unique symbol ID	3
5	BRCTransferable	char(2)	T- Transferable /NT- Non Transferable security	T/NT
6	BRCRepoTenure	bigint	Repo Tenor (In Days)	
7	BRCIssuerType	varchar(10)	Issuer type	PSU
8	BRCTickSize	bigint	Tick size of the product.	0.01
9	BRCMarketLot	bigint	Order Market lot	1
10	BRCMultiplierLotSize	bigint	Multiplier size	100000
11	BRCMaxOrderSize	bigint	Maximum order size	999999999
12	BRCSettlementType	varchar(2)	T0 or T1	T0
13	BRCStartDate	datetime(8)	Start date of the contract. e.g. 16-DEC2018. DD-MMM-YYYY format	26-07-2018
14	BRCStartTime	bigint	Start time of the contract.	1532595600
15	BRCDecimalLocator	bigint	Precision(Value of Decimal locator)	2
16	BRCEndDate	datetime(8)	Last trading date of the contract. e.g. DD-MMM-YYYY format.	26-07-2018
17	BRCEndTime	bigint	End time of the contract.	1532610000

18	BRCMaturityDate	datetime(8)	This shall be same as Expiry date. This date is the actual last trading date of the Product.	27-Jul-18
19	BRCUpperPriceBand	bigint	Upper circuit limit of contract in absolute value.	20
20	BRCLowerPriceBand	bigint	Lower circuit limit of contract in absolute value.	2
21	BRCGroupId	bigint	Repo group	1
22	BRCProductId	bigint	Product ID	74
23	BRCPartitionId	bigint	Partitioned ID	1
24	BRCTradingStatus	bigint	Trading status	A
25	BRCSecurityType	bigint	Security type	CB CD CP
26	BRCCreatedAt	datetime(8)	Contract created time.	1:13:55 AM
27	BRCCreatedBy	bigint	NA	2
28	BRCLastUpdatedAt	datetime(8)	Contract last updated time.	blank
29	BRCLastUpdatedBy	bigint	NA	0
30	BRCRowState	bigint	RowState	1
31	Filler	filler	filler	0

1.1.166 NSE Equity Search Request

Message Name	SecuritiesSearch
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to see **BSE Equity security details.**

Field Name	Type	Description	Values, meanings, Validations
symbol	varchar(30)	Unique symbol defined for each asset	ALS
exchange	bigint	Exchange name	For details Refer to Appendix section 1.1
SessionKey	varchar(62)	Unique key for identify user session	530138234-01119170170
Thick Client	char(1)	Thick Client	Y

1.1.167 NSE Equity Search Reply

Message Name	SecuritiesSearch
Type of Message	HTTP Response
Description	This is the reply message sent in response to see **BSE Equity details** request. The reply message contains the symbol and the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum number of Records	2		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	Int	Successful=0 Failed=1	0
Record1:Field2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
Record1:Field3	Number of records	int	Number of records	6
Record2	Column Data	varchar	Data as per column header	100014|ABB|ABB Ind limited|EQ||100014|

Detail Description of Record 2: Column Data

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Token no	bigint	The token number of the contract. This is internal token number received in scrip/contract master.	100014
2	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	ABB
3	Company name	varchar(50)	Company name	ABB Ind limited
4	Series	char(2)	Series ID for security	EQ/BE
5	Blank	Blank	Blank	blank
6	Token no		The token number of the contract. This is internal token number received in scrip/contract master.	100014

1.1.168 NSE Equity Security Details Request

Message Name	GetSecurityDetail
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to see **NSE security details.**

Field Name	Type	Description	Values, meanings, Validations
SCID	bigint	Script ID	100020
ISIN	varchar(50)	ISIN number of Security	INE793A01012
EXCHANGE	bigint	Exchange ID	1
SessionKey	varchar(62)	Unique key for identify user session	509998508-02087038092089093093
Thick Client	char(1)	Thick client	Y

1.1.169 NSE Equity Security Details Reply

Message Name	GetSecurityDetail
Type of Message	HTTP Response
Description	This is the reply message sent in response to see **NSE security details** request. The reply message contains the contract id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum number of records	8		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	int	Successful=0 Failed=1	0
Record1:Field2	Error Details	varchar	If Field1= 1 then error message otherwise blank	blank
Record2	Number of data records	int	Number of data records	2
Record3	Column Headers	varchar	Blank	SCID|SCSymbol|SCSeries|SCCompanyName|SCCorporateAction|SCCAStartDate|SCCAEndDate|SCBuyBack|SCPermissions|SCNSEBTST|SCBSEBTST|SCCreatedBy|SCCreatedAt|SCLastUpdatedBy|SCLastUpdatedAt|SCFIELD1

				| SCFIELD2|SCFIELD3| SCFIELD4|SCROWSTATE|
Record4	Column Data	varchar	Data as per Column header	100020|ACCELYA|EQ|ACCELYA KALE SOLUTION LTD|INT DIV RS 14/- PER SHARE|01-01-1980 00:00:00:000|01-01-1980 00:00:00:000||0|||1|12-09-2018 16:05:41:400|1|12-09-2018 16:05:41:400|||INE793A01012|0|1|||
Record5	NSE Column Headers	varchar	NSE Column Headers	NSCID|NSCTimestamp1| NSCToken|NSCSymbol| NSCSeries|NSCInstrumentType| NSCPermittedToTrade| NSCIssuedCapital|NSCWarningPercent| NSCFreezePercent|NSCCreditRating| NSCNormalEligibility|NSCNormalStatus| NSCOddlotEligibility|NSCOddlotStatus| NSCSpotEligibility|NSCSpotStatus| NSCAuctionEligibility|NSCAuctionStatus| NSCIssueRate|NSCIssueStartDate| NSCInterestPayment|NSCIssueMaturityDate| NSCBoardLotQuantity|NSCTickSize| NSCName|NSCListingDate| NSCExpulsionDate| NSCReAdmissionDate|NSCRecordDate| NSCExpiryDate| NSCNoDeliveryStartDate| NSCNoDeliveryEndDate| NSCEligibilityIndicators| NSCBookClosureStartDate| NSCBookClosureEndDate| NSCPurpose|NSCLocalUpdateTime| NSCDeleteFlag|NSCRemarks| NSCParticipateInIndex|NSCAON|

				NSCMinimumFill|NSCDividend| NSCRights|NSCBonus| NSCInterest|NSCAGM|NSCEGM| NSCFaceValue|NSCSCID| $User$|NSCCreatedAt|$User$| NSCLastUpdatedAt|NSCFIELD1| NSCFIELD2|NSCFIELD3| NSCFIELD4|NSCROWSTATE|
Record6	NSE Column Data	varchar	Data per Column header	100020|0|7053|ACCELYA|EQ|0|0|14926261|0.00|0.68|789.30-1183.90|1|6|0|2|0|2|1|2|0.00|01-12-1999|0||1|5|ACCELYA KALE SOLUTION LTD(NormalCallAuction)||01-12-1999|||15-02-2018|14-02-2018|||0|||0|N|INT DIV RS 14/- PER SHARE|0|1|1|1|0|0|0|0|0|10.00|100020|1|04-07-2018 12:42:02:080|2|12-09-2018 01:13:27:547|1||INE793A01012||1
Record7	BSE Column Header	varchar	BSE Column Header	BSCID|BSCScripCode|BSCSCID|BSCBoardLot|BSCBroadcast|BSCAdditionalVolatilityFlag|BSCAdditionalVolatilityBuyMargin|BSCAdditionalVolatilitySellMargin|BSCScriptId|BSCScriptName|BSCGroupName|BSCNonDisclosureFlag|BSCNonDisclosureStartDate|BSCNonDisclosureEndDate|BSCSuspendedStatus|BSCBuySpecificationMargin|BSCSellSpecificationMargin|BSCDividend|BSCBitWiseInfo|BSCSpotStartDate|BSCSpotEndDate|BSCExDateR|BSCExDateB|BSCExDateD|BSCISIN|BSCDividendFinancialYear|BSCBookClosureStartDate|BSCBookClosureEndDate|BSCRecordDate|BSCRating|BSCBuyMarginFlag|BSCSellMarginFlag|BSCFaceValue|$User$|BSCCreatedAt|$User$|BSCLastU

				pdatedAt|BSCFIELD1|BSCFIELD2|BSCFIELD3|BSCFIELD4|BSCROWSTATE|
Record8	BSE Column Data	varchar	Data per Column header	blank

Detail Description of Record 3: Column Headers

Field No	Field Name	Type	Description	Values, meanings, Validations
1	SCID	bigint	Contract/scrip ID	100019
2	SCSymbol	bigint	Unique symbol / Asset Code defined for each asset.	ACC
3	SCSeries	bigint	Unique Series Id	EQ
4	SCCompanyName	bigint	Company name	ACC LIMITED
5	SCCorporateAction	bigint	Corporate action	AGM/DIV-RS 15 PER SHARE
6	SCCAStartDate	datetime(8)	The start date of the security	21-05-2018 00:00:00:000
7	SCCAEndDate	datetime(8)	The end date of issue of the security	25-05-2018 00:00:00:000
8	SCBuyBack	bigint	Buy Back	blank
9	SCPermissions	bigint	Script permission	0
10	SCNSEBTST	bigint	NSE Buy today and sell tomorrow	blank
11	SCBSEBTST	bigint	BSE Buy today and sell tomorrow	blank
12	SCCreatedBy	bigint	NA	1
13	SCCreatedAt	datetime(8)	Contract created time.	12-09-2018 14:44:28:940
14	SCLastUpdatedBy	bigint	NA	1
15	SCLastUpdatedAt	datetime(8)	Contract last updated time.	12-09-2018 14:44:28:940
16	SCFIELD1	bigint	blank	blank
17	SCFIELD2	bigint	blank	blank
18	SCFIELD3	bigint	ISIN number of security	INE012A01025
19	SCFIELD4	bigint	blank	0
20	SCROWSTATE	bigint	RowState	1

Detail Description of Record 5: Column Headers

Field No	Field Name	Type	Description	Values, meanings, Validations
1	NSCID	bigint	Contract/Scrip ID	100019
2	NSCTimestamp1	bigint	The time the message arrives at the trading system host. This should be set to numeric zero while sending to host.	0

3	NSCToken	bigint	The token number of the Contract.This is internal token number received in Scrip/Contract Master.	22
4	NSCSymbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	ACC
5	NSCSeries	char(2)	Unique Series Id	EQ
6	NSCInstrumentType	varchar(10)	Instrument Type	
7	NSCPermittedToTrade	float(8)	The following values. Listed but not permitted to trade =0 Permitted to trade =1	0
8	NSCIssuedCapital	bigint	The issue size	187787173
9	NSCWarningPercent	bigint	The warning percentage. If a broker exceeds his turnover by this value in percent, then a warning message is broadcast to all traders.	0
10	NSCFreezePercent	bigint	Freeze Percent for the security. If a broker exceeds his turnover by this value in percent, the broker is deactivated and a message is broadcast to all traders.	0.04
11	NSCCreditRating	varchar(30)	The credit rating of the security.	1367.50-1671.30
12	NSCNormalEligibility	bigint	The flag is set to 1 if the security is allowed to trade in a particular market.	1
13	NSCNormalStatus	bigint	Normal Status	6
14	NSCOddlotEligibility	bigint	Odd lot eligibility	0
15	NSCOddlotStatus	bigint	ODD lot status	2
16	NSCSpotEligibility	bigint	Spot Eligibility	0
17	NSCSpotStatus	bigint	Spot Status	2
18	NSCAuctionEligibility	bigint	Auction Eligibility	1
19	NSCAuctionStatus	bigint	Auction Status	2
20	NSCIssueRate	bigint	Price of the issue.	0
21	NSCIssueStartDate	datetime(8)	Date of issue of the security.	24-10-1994
22	NSCInterestPayment	bigint	Interest Payment Date	0
23	NSCIssueMaturityDate	datetime(8)	Maturity Date.	
24	NSCBoardLotQuantity	bigint	The board lot quantity. The regular lot order quantity must be a multiple of this quantity.	1
25	NSCTickSize	bigint	The tick size. The order price, and the trigger price - if applicable, must be a multiple of this tick size.	5

26	NSCName	varchar(62)	Company Name	ACC LIMITED(NormalCall Auction)
27	NSCListingDate	datetime(8)	Date of listing.	blank
28	NSCExpulsionDate	datetime(8)	Date of expulsion.	blank
29	NSCReAdmissionDate	datetime(8)	Date of readmission	blank
30	NSCRecordDate	datetime(8)	Date of record changed.	blank
31	NSCExpiryDate	datetime(8)	Last date of trading before any corporate action.	
32	NSCNoDeliveryStartDate	datetime(8)	The date from when physical delivery of share certificates is stopped for book closure.	14-02-2018
33	NSCNoDeliveryEndDate	datetime(8)	The date from when physical delivery of share certificates starts after book closure	blank
34	NSCEligibilityIndicators	bigint	Eligibility Indicators	blank
35	NSCBookClosureStartDate	datetime(8)	The date when the record books in the company for shareholder names starts.	0
36	NSCBookClosureEndDate	datetime(8)	Date at which the record books in the company for shareholder names ends.	21-05-2018
37	NSCPurpose	bigint	The EX STYLE / EGM / AGM / Interest / Bonus / Rights / Dividend flags set depending on the corporate action.	25-05-2018
38	NSCLocalUpdateTime	bigint	The local database updates date-time.	0
39	NSCDeleteFlag	char(1)	This contains one of the following values to denote whether the security is deleted or not.	Active =N Deleted =Y
40	NSCRemarks	varchar(62)	Remarks	AGM/DIV-RS 15 PER SHARE
41	NSCParticipateInIndex	char(1)	Not Participate In Index =0 Participate In Index=1	1
42	NSCAON	char(1)	All Or None	AON not allowed =0 AON Allowed =1
43	NSCMinimumFill	char(1)	This field specifies the minimum fill quantity when the minimum fill attribute is set for an order. It should not be greater than either the volume of the order or the disclosed quantity and must be a multiple of the regular lot.	1
44	NSCDividend	char(1)	No Dividend =0	1

			Dividend =1	
45	NSCRights	char(1)	No Rights =0 Rights =1	0
46	NSCBonus	char(1)	No Bonus =0 Bonus =1	0
47	NSCInterest	char(1)	No Interest =0 Interest =1	0
48	NSCAGM	char(1)	Annual General Meeting	No AGM =0 AGM =1
49	NSCEGM	char(1)	Extraordinary General Meeting	No EGM =0 EGM =1
50	NSCFaceValue	bigint	Face value of security Face Value is the nominal value of stock at the time of issuing.	10
51	NSCSCID	bigint	Contract/scrip ID	100019
52	$User$	bigint	NA	1
53	NSCCreatedAt	datetime(8)	Contract created time.	04-07-2018 12:42:02:080
54	$User$	bigint	NA	2
55	NSCLastUpdatedAt	datetime(8)	Contract last updated time.	12-09-2018 01:13:27:533
56	NSCFIELD1	bigint	Field1	1
57	NSCFIELD2	datetime(8)	Date time format	blank
58	NSCFIELD3	varchar(30)	ISIN number of security	INE012A01025
59	NSCFIELD4	varchar(254)	blank	blank
60	NSCROWSTATE	bigint	RowState	1

1.1.170 NSE Derivative Contract Search Request

Message Name	**ContractsSearch**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to see **NSE derivative contract details.**

Field Name	Type	Description	Values, meanings, Validations
symbol	varchar(30)	Unique symbol defined for each asset	ACC
instrumenttype	varchar(10)	Instrumenttype	FUTSTK
expirydate	bigint	This date is the actual last trading date of the Product.	-1
optiontype	char(2)	This field contains the option type. CALL= CE PUT = PE	Future contract = Blank Option Contract = CE/PE
contractId	bigint	Contract internal number	113798
SessionKey	varchar(62)	Unique key for identify user session	576359288-

			0329930425030130 5305
Thick Client	char(1)	Thick client	Y

1.1.171 NSE Derivative Contract Search Reply

Message Name	**ContractsSearch**
Type of Message	HTTP Response
Description	This is the reply message sent in response to see **NSE derivative contract details** request. The reply message contains the contract id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum number of records**	**2**		
Field No	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	int	Successful=0 Failed=1	0
Record1:Field2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
Record1:Field3	Number of data records	int	Number of data records	1
Record 2	Column Data	varchar	Data per Column header order	113798|42949|FUTSTK |ACC|27 Sep 2018|-0.01|XX|1222525800

Detail Description of Record 2: Data per Column Header Order

Field No	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
1	ContractID	bigint	Internal Contract ID	113798
2	Token	bigint	The token number of the Contract.This is internal token number received in Scrip/Contract Master	42949
3	InstrumentType	varchar(10)	Instrument Type	FUTSTK
4	Symbol	varchar(30)	Contract internal ID	ACC
5	ExpiryDate	bigint	This date is the actual last trading date of the Product. DD-MMM-YYYY	27-Sep-18
6	StrikePrice	bigint	Strike price of option contract.	Equity & Futures contract= -0.01 Currency Option Contract= Strike Price * 10000

				All other market= Strike Price * 100
7	OptionType	char(2)	This field contains the option type. CALL= CE PUT = PE	Future Contract= XX Option Contract = CE/PE

1.1.172 NSE Derivative Contract Details Request

Message Name	**ListNSEContract**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to see **NSE derivative contract details.**

Field Name	Type	Description	Values, meanings, Validations
NCNID	bigint	Internal id	33
SessionKey	varchar(62)	Unique key for identify user session	530138234-01119170170
Thick Client	char(1)	Thick client	Y

1.1.173 NSE Derivative Contract Details Reply

Message Name	**ListNSEContract**
Type of Message	HTTP Response
Description	This is the reply message sent in response to see **NSE derivative contract details** request. The reply message contains the contract id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum number of records**	**4**		
Field No	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	int	Successful=0 Failed=1	0
Record 1:Field2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
Record 2	Number of data records	int	Number of data records	1
Record 3	Column Header	varchar	Column Header	NCNID|NCNTimestamp1|NCNLogTime|NCNToken|NCNInstrumentName|NCNSymbol|NCNSeries|NCNExpiryDate|NCNStrikePrice|NCNOptionType|NCNCALevel|NCNPermittedToTrade|NCNIs

				suedCapital|NCNWarningPercent|NCNFreezePercent|NCNCreditRating|NCNNormalEligibility|NCNNormalStatus|NCNOddlotEligibility|NCNOddlotStatus|NCNSpotEligibility|NCNSpotStatus|NCNAuctionEligibility|NCNAuctionStatus|NCNIssueRate|NCNIssueStartDate|NSEInterestPayment|NCNIssueMaturityDate|NCNBoardLotQuantity|NCNTickSize|NCNName|NCNListingDate|NCNExpulsionDate|NCNReAdmissionDate|NCNRecordDate|NCNLowPriceRange|NCNHighPriceRange|NCNExpiryDate1|NCNNoDeliveryStartDate|NCNNoDeliveryEndDate|NCNEligibilityIndicator|NCNBookClosureStartDate|NCNBookClosureEndDate|NCNExerciseStartDate|NCNExerciseEndDate|NCNOldToken|NCNAssetInstrument|NCNAssetName|NCNAssetToken|NCNIntrinsicValue|NCNExtrinsicValue|NCNPurpose|NCNLocalUpdateTime|NCNSCID|NCNPriceUnit|NCNQuantityUnit|NCNPriceNumerator|NCNPriceDenominator|NCNDeliveryUnit|NCNDeliveryLot|NCNCreatedBy|NCNCreatedAt|NCNLastUpdatedBy|NCNLastUpdatedAt|NCNFIELD1|NCNFIELD2|NCNFIELD3|NCNFIELD4|NCNROWSTATE
Record 4	Column Data	varchar	Data per Column header	113798|0|0|42949|FUTSTK|ACC|XX|27 Sep 2018|-1|XX|0|1|187787200|0|28001|AAA|1|1|0|2|0|2|0|3|0|29-06-2018|0|27-09-2018|400|5|ACC18SEPFUT|29-06-2018||||1405.15|1717.40||01-01-1980 00:00:00:000|01-01-1980 00:00:00:000|0|||||1|||22|0|0|0|12-09-2018 16:36:06:000|-1|||1|1|||1|29-06-2018 01:55:14:657|1|14-09-2018 00:50:25:477|||||1

Detail Description of Record 3: Column Header

Field No	Field Name	Type	Description	Values, meanings, Validations
1	NCNID	bigint	Contract/Scrip ID	113798
2	NCNTimestamp1	bigint	The time the message arrives at the trading system host. This should be set to numeric zero while sending to host.	0
3	NCNLogTime	bigint	This field should be set to zero while sending messages to the host. For messages coming from the host, this contains the time when the message was generated by the trading system host	0
4	NCNToken	bigint	Contract Token number	42949
5	NCNInstrumentName	varchar(10)	Instrument Type	FUTSTK
6	NCNSymbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	ACC
7	NCNSeries	char(2)	Unique Series Id	XX
8	NCNExpiryDate	datetime(8)	This date is the actual last trading date of the Product. DD-MMM-YYYY	28 Mar 2019
9	NCNStrikePrice	bigint	Strike price of option contract.	Future contract= -1 Commodity, Derivatives Options Contract = Strike price *100 Currency Option Contract =Strike Price * 10000
10	NCNOptionType	char(2)	This field contains the option type. CALL= CE PUT = PE	Future Contract= XX Option Contract = CE/PE
11	NCNCALevel	bigint	The Corporate Action Level.	0
12	NCNPermittedToTrade	bigint	This field contains one of the following values. Listed but not permitted to trade =0 Permitted to trade =1	1
13	NCNIssuedCapital	bigint	This field contains the issue size	187787200
14	NCNWarningPercent	bigint	This field contains the warning percentage.	0

			If a broker exceeds his turnover by this value in percent, then a warning message is broadcast to all traders.	
15	NCNFreezePercent	bigint	Freeze Percent for the security. If a broker exceeds his turnover by this value in percent, the broker is deactivated and a message is broadcast to all traders.	28001
16	NCNCreditRating	varchar(30)	This field contains the credit rating of the security.	AAA
17	NCNNormalEligibility	char(1)	The flag is set to 1 if the security is allowed to trade in a particular market.	1
18	NCNNormalStatus	bigint	Normal Status	1
19	NCNOddlotEligibility	char(1)	Odd lot elogibility	0
20	NCNOddlotStatus	bigint	ODD lot status	2
21	NCNSpotEligibility	char(1)	Spot Eligibility	0
22	NCNSpotStatus	bigint	Spot Status	2
23	NCNAuctionEligibilit y	char(1)	Auction Eligibility	0
24	NCNAuctionStatus	bigint	Auction Status	3
25	NCNIssueRate	bigint	Auction Status	0
26	NCNIssueStartDate	datetime(8)	Price of the issue.	29-06-2018
27	NSEInterestPaymen t	bigint	Date of issue of the security.	0
28	NCNIssueMaturityD ate	datetime(8)	Maturity Date.	27-09-2018
29	NCNBoardLotQuanti ty	bigint	This field contains the board lot quantity. The regular lot order quantity must be a multiple of this quantity.	400
30	NCNTickSize	bigint	This field contains the tick size. The order price, and the trigger price - if applicable, must be a multiple of this tick size.	5
31	NCNName	varchar(62)	Company Name	ACC18SEPFUT
32	NCNListingDate	datetime(8)	This field contains the date of listing.	29-06-2018
33	NCNExpulsionDate	datetime(8)	This field contains the date of expulsion.	Blank
34	NCNReAdmissionD ate	datetime(8)	The date of readmission	Blank
35	NCNRecordDate	datetime(8)	The date of record changed.	Blank
36	NCNLowPriceRange	bigint	The lowest trade price.	1405.15
37	NCNHighPriceRang e	bigint	The highest trade price.	1717.4

38	NCNExpiryDate1	datetime(8)	The last date of trading before any corporate action.	Blank
39	NCNNoDeliveryStart Date	datetime(8)	The date from when physical delivery of share certificates is stopped for book closure.	01-01-1980 00:00:00:000
40	NCNNoDeliveryEnd Date	datetime(8)	The date from when physical delivery of share certificates starts after book closure.	01-01-1980 00:00:00:000
41	NCNEligibilityIndicat or	bigint	Eligibility Indicators	0
42	NCNBookClosureSt artDate	bigint	The date when the record books in the company for shareholder names starts.	Blank
43	NCNBookClosureEn dDate	datetime(8)	Date at which the record books in the company for shareholder names ends.	Blank
44	NCNExerciseStartD ate	datetime(8)	Starting date	For option contract otherwise blank
45	NCNExerciseEndDa te	datetime(8)	Last date for Exercise.	For option contract otherwise blank
46	NCNOldToken	bigint	OLD token	1
47	NCNAssetInstrumen t	varchar(6)	The underlying asset type, for example INDEXES.	Blank
48	NCNAssetName	varchar(10)	The name of the underlying asset, for example NIFTY.	Blank
49	NCNAssetToken	bigint	The token number of the asset.	22
50	NCNIntrinsicValue	bigint	Intrinsic value of the contract.	0
51	NCNExtrinsicValue	bigint	Extrinsic value of the contract.	0
52	NCNPurpose	bigint	This field contains the EX STYLE / EGM / AGM / Interest / Bonus / Rights / Dividend flags set depending on the corporate action.	0
53	NCNLocalUpdateTi me	datetime(8)	Script ID	12-09-2018 16:36:06:000
54	NCNSCID	bigint	Time stamp at which the last activity was done. This is same as LastActiveTime.	-1
55	NCNPriceUnit	varchar(14)	Unit	Blank
56	NCNQuantityUnit	varchar(14)	Quantity Unit	Blank
57	NCNPriceNumerator	bigint	Price Numerator Value to be used for deriving the trade Value.	1
58	NCNPriceDenominat or	bigint	Price denominator Value to be used for deriving the trade Value.	1
59	NCNDeliveryUnit	varchar(14)	Delivery Unit	Blank
60	NCNDeliveryLot	bigint	Delivery lot	Blank

61	NCNCreatedBy	bigint	Contract created User ID.	1
62	NCNCreatedAt	datetime(8)	Contract created time.	29-06-2018 01:55:14:657
63	NCNLastUpdatedBy	bigint	Updated last contract user ID.	1
64	NCNLastUpdatedAt	datetime(8)	Contract last updated time.	14-09-2018 00:50:25:477
65	NCNFIELD1	bigint	Filler	Filler
66	NCNFIELD2	bigint	Filler	Filler
67	NCNFIELD3	varchar(30)	Blank	Blank
68	NCNFIELD4	varchar(254)	Filler	Filler
69	NCNROWSTATE	bigint	RowState	1

1.1.174 NSE Commodity Contract Search Request

Message Name	**NSECommodityContractSearch**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to see **NSE commodity contract details.**

Field Name	Type	Description	Values, meanings, Validations
symbol	varchar(30)	Unique symbol defined for each asset	CRUDE
instrumenttype	varchar(10)	Instrumenttype	FUTENR
expirydate	datetime(8)	This date is the actual last trading date of the Product (in seconds).	1238941800
optiontype	varchar(2)	This field contains the option type. CALL= CE PUT = PE	Future Contract= XX Option Contract = CE/PE
contractId	bigint	Contract internal ID.	32
SessionKey	varchar(62)	Unique key for identify user session	1598072682-02234177
Thick Client	char(1)	Thick client	Y

1.1.175 NSE Commodity Contract Search Reply

Message Name	**NSECommodityContractSearch**
Type of Message	HTTP Response
Description	This is the reply message sent in response to see **NSE commodity contract details** request. The reply message contains the contract id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum number of records	2		
Field No	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	int	Successful=0 Failed=1	0
Record1:Field2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
Record1:Field3	Number of data records	int	Number of data records	1
Record 2	Column Data	varchar	Data per Column header order	32|1024|FUTENR|CRUDE|15 Nov 2008|-0.01|XX

Detail Description of Record 2: Data per Column Header Order

Field No	Field Name	Type	Description	Values, meanings, Validations
1	ID	bigint	Contract internal ID	32
2	Token	bigint	Contract internal token	1024
3	InstrumentName	varchar(50)	Instrument name	FUTENR
4	Symbol	varchar(30)	Unique symbol defined for each asset	CRUDE
5	ExpiryDate	datetime(8)	This date is the actual last trading date of the Product. DD-MMM-YYYY format	15-Nov-08
6	StrikePrice	bigint	Strike price of option contract.	Future contract= -0.01 Currency Option Contract= Strike Price * 10000 All other market= Strike Price * 100
7	OptionType	char(2)	This field contains the option type. CALL= CE PUT = PE	Future contract= XX Option Contract = CE/PE

1.1.176 NSE Commodity Contract Details Request

Message Name	ListNSECommodityContracts
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to see **NSE commodity contract details.**

Field Name	Type	Description	Values, meanings, Validations
NCCID	bigint	Internal ID	32
SessionKey	varchar(62)	Unique key for identify user session	1598072682-02234177
Thick Client	char(1)	Thick client	Y

1.1.177 NSE Commodity Contract Details Reply

Message Name	**ListNSECommodityContracts**
Type of Message	HTTP Response
Description	This is the reply message sent in response to see **NSE commodity contract details** request. The reply message contains the contract id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum number of records**	**4**		
Field No	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of request	int	Successful=0 Failed=1	0
Record 1:Field2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
Record 2	Number of data records	int	Number of data records	1
Record 3	Column Header	varchar	Column Header	NCCID|NCCInstrumentName|NCCCreditRating|NCCToken|NCCAssetToken|NCCSymbol|NCCStrikePrice|NCCOptionType|NCCIssuedCapital|NCCBasePrice|NCCName|NCCTradingUnit|NCCPriceQuote|NCCTradingLot|NCCTickSize|NCCIssueStartDate|NCCExpiryDate|NCCListingDate|NCCInterestPaymentDate|NCCNoDeliveryStartDate|NCCNoDeliveryEndDate|NCCIssueMaturityDate|NCCMarginPercentage|NCCMultiplier|NCCRemarks|NCCTickValue|NCCDPR
Record 4	Column Data	varchar	Data as per Column header	32|FUTENR|LIGHT SWEET|1024|8|CRUDE||XX|1000000000000|3800|CRUDE18NOVFUT|BBL|1|100|1|18-07-2018|16-11-2018|18-07-2018|23-11-2018|||16-11-2018|0|100|1;100;50000;BBL|1.0|3648.0-3952.0|

Detail Description of Record 3: Column Header

Field No	Field Name	Type	Description	Values, meanings, Validations
1	NCCID	bigint	Contract Internal id	32
2	NCCInstrumentName	varchar(10)	Instrument Name	FUTENR
3	NCCCreditRating	varchar(50)	Credit rating	LIGHT SWEET
4	NCCToken	bigint	The token number of the Contract.This is internal token number received in Scrip/Contract	1024
5	NCCAssetToken	bigint	The token number of the asset.	8
6	NCCSymbol	varchar	Unique symbol defined for each asset	CRUDE
7	NCCStrikePrice	varchar	Strike price of option contract. Blank for Futures.	Futures contract=Blank Currency Option Contract= Strike Price * 10000 All other market= Strike Price * 100
8	NCCOptionType	varchar	This field contains the option type. CALL= CE PUT = PE	Futures contract=XX Option Contract = CE/PE
9	NCCIssuedCapital	bigint	This field contains the issued size of the Contract.	1000000000000
10	NCCBasePrice	bigint	Base price of the stock.	3800
11	NCCName	varchar	Security name.	CRUDE18NOVFUT
12	NCCTradingUnit	varchar	Trading Unit	BBL
13	NCCPriceQuote	bigint	Price Quote	1
14	NCCTradingLot	bigint	TradingLot	100
15	NCCTickSize	bigint	The tick size. The order price, and the trigger price - if applicable, must be a multiple of this tick size.	1
16	NCCIssueStartDate	datetime(8)	This field contains the date of issue of the security.	18-07-2018
17	NCCExpiryDate	datetime(8)	Expiry date of the Scrip/Contract.	16-11-2018
18	NCCListingDate	datetime(8)	This field contains the date of listing.	18-07-2018
19	NCCInterestPayment Date	datetime(8)	The interest payment date of the issue.	23-11-2018
20	NCCNoDeliveryStartD ate	datetime(8)	Date from when physical delivery of share certificates is stopped for book closure.	Blank

21	NCCNoDeliveryEndDate	datetime(8)	Date from when physical delivery of share certificates starts after book closure.	Blank
22	NCCIssueMaturityDate	datetime(8)	This field contains the maturity date.	16-11-2018
23	NCCMarginPercentage	Filler	The initial margin percent to be collected on a contract.	0
24	NCCMultiplier	bigint	Multiplier	100
25	NCCRemarks	bigint	remarks	1;100;50000;BBL
26	NCCTickValue	bigint	TickValue	1
27	NCCDPR	bigint	Daily Price Range	3648.0-3952.0

1.1.178 NSE Currency Contract Details Request

Message Name	ListNSECurrencyContract
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to see **NSE currency contract details.**

Field Name	Type	Description	Values, meanings, Validations
NCNID	bigint	Internal id	33
SessionKey	varchar(62)	Unique key for identify user session	530138234-01119170170
Thick Client	char(1)	Thick client	Y

1.1.179 NSE Currency Contract Details Response

Message Name	ListNSECurrencyContract
Type of Message	HTTP Response
Description	This is the reply message sent in response to see **NSE currency contract details** request. The reply message contains the contract id and the status of the transaction after it was processed (i.e. **success or failure**).

Field No	Field Name	Type	Description	Values, meanings, Validations
Record1:Field1	Status of request	int	Successful=0 Failed=1	0
Record 1:Field2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
Record 2	Number of data records	int	Number of data records	1
Record 3	Column Header	varchar	Blank	NCCID|NCCCONTRACTTOKEN|NCCASSETTOKEN|NCCINSTRUMENT|NCCSYMBOL|NCCSERIES|NCCEXPIR

				YDATE|NCCSTRIKEPRICE|NCCOPTIONTYPE|NCCPRECISION|NCCCALEVEL|NCCADMISSIONTYPE|NCCISSUERATE|NCCTRADINGSTATUSNORMALMARKET|NCCELIGIBILITYNORMALMARKET|NCCTRADINGSTATUSODDLOT|NCCELIGIBILITYODDLOT|NCCTRADINGSTATUSSPOTMARKET|NCCELIGIBILITYSPOTMARKET|NCCTRADINGSTATUSAUVTIONMARKET|NCCELIGIBILITYAUCTIONMARKET|NCCISSUESTARTDATE|NCCSETTLEMENTDATE|NCCCONTRACTMATURITYDATE|NCCMARGINPERCENTAGE|NCCMINLOTSIZE|NCCBOARDLOTQTY|NCCTICKSIZE|NCCISSUEDCAPITAL|NCCVOLFREEZEQTY|NCCWARNINGQTY|NCCADMISSIONDATE|NCCEXPULSIONDATE|NCCREADMISSIONDATE|NCCRECORDDATE|NCCNODELIVERYSTARTDATE|NCCNODELIVERYENDDATE|NCCOPTRANGELOWPRICE|NCCOPTRANGEHIGHPRICE|NCCEXDATE|NCCBOOKCLOSURESTARTDATE|NCCBOOKCLOSUREENDDATE|NCCUPDATEDATETIME|NCCEXERCISESTARTDATE|NCCEXERCISEENDDATE|NCCTICKERSELECTION|NCCQTYMULTIPLIER|NCCCREDITRATING|NCCSTOCKNAME|NCCCORPORATEPURPOSEAGMEGM|NCCCORPORATEPURPOSEINTERESTDIVIDEND|NCCCORPORATEPURPOSERIGHTSBONUS|NCCSPECIALTERMS|NCCREMARKS|NCCEXCERCISESTYLE|NCCEXCERCISEALLOWED|NCCEXCERCISEREJECTIONALLOWED|NCCPOSITIONLIQUIDATIONALLOWED|NCCCHECKSUM|NCCCORPORATEA

				CTIONADJUSTED|NCCUNDERLYINGASSETSYMBOL|NCCASSETINSTRUMENT|NCCBASEPRICE|NCCDELETEFLAG|NCCROWSTATE
Record 4	Column Data	varchar	Data per Column header	1298|1003|7|FUTIRC|679GS2027|XX|1222525800|-1|XX|4|0|0|0|1|1|2|0|2|0|3|0|1191110400|1222473600|1222525800|0|1|2000|25000|1000000000000|1251|0|1191110400|0|0|0|0|0|880375000|934850000|0|0|0|1221249372|0|0|15|2000| |679GS202718SEPFUT|0|0|0|0||E|N|N|N||N|679GS2027||907600000|N|1|07:04:58 AM|1|12:52:30 AM|0||||1|1.00|

Detail Description of Record 3: Column Header

Field No	Field Name	Type	Description	Values, meanings, Validations
1	NCCID	bigint	Internal ID	6953
2	NCCContractToken	bigint	Contract Token number	4781
3	NCCAssetToken	bigint	Asset token number	25
4	NCCInstrument	varchar(10)	Instrument type	OPTCUR
5	NCCSymbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	EURINR
6	NCCSeries	bigint	Series ID	XX
7	NCCExpiryDate	datetime(8)	This date is the actual last trading date of the Product (In seconds).	e.g. 1222439400
8	NCCStrikePrice	bigint	Strike price of option contract.	Future contract= -1 Currency Option Contract= Strike Price * 10000 All other market= Strike Price * 100
9	NCCOptionType	bigint	Option Type of Contract. CALL=CE PUT=PE	Future contract= XX For option type contract= CE/PE
10	NCCPrecision	bigint	Price precision Indicator. The close price to be considered as 4 decimal	4
11	NCCCALevel	bigint	The Corporate Action Level	0
12	NCCAdmissionType	bigint	Admission type	0
13	NCCIssueRate	bigint	The price of the issue.	0

14	NCCTradingsStatusNormalMarket	bigint	Trading status of the security.	Preopen =1 Open =2 Suspended =3 Preopen Extended =4
15	NCCEligibilityNormalMarket	bigint	The flag will be set to 1 if the combination is allowed to trade.	1
16	NCCTradingStatusOddLot	bigint	Trading Status ODD lot	2
17	NCCEligibilityOddLot	bigint	Eligibility ODD lot	0
18	NCCTradingStatusPotMarket	bigint	Trading Status Spot Market	2
19	NCCEligibilitySpotMarket	bigint	Eligibility Spot Market	0
20	NCCTradingStatusAuctionMarket	bigint	Trading Status auction market	3
21	NCC Eligibility AuctionMarket	bigint	Eligibility auction market	0
22	NCCIssueStartDate	datetime(8)	Date of issue of the security (In seconds).	1212105600
23	NCCSettlementDate	datetime(8)	The settlement date (In seconds).	1222560000
24	NCCContractMaturityDate	datetime(8)	This field contains the maturity date of the contract (In seconds).	1222412400
25	NCCMarginPercentage	bigint	The initial margin percent to be collected on a contract.	0
26	NCCMINLotSize	bigint	Min qty can be traded at a single order	1
27	NCCBoardLotQty	bigint	This field contains the board lot quantity. The regular lot order quantity must be a multiple of this quantity.	1000
28	NCCTickSize	bigint	The tick size. The order price, and the trigger price - if applicable, must be a multiple of this tick size.	25000
29	NCCIssuedCapital	bigint	The issue size of the Contract.	1000000000000
30	NCCVolFreezeQty	bigint	Freeze quantity.	10001
31	NCCWarningQty	bigint	This field contains the warning percentage. If a broker exceeds his turnover by this value in percent, then a warning message is broadcast to all traders.	0
32	NCCAdmissionDate	bigint	The date of admission.	1212105600
33	NCCExpulsionDate	bigint	The date of expulsion.	0
34	NCCReadmissionDat	bigint	Date of readmission.	0

	e			
35	NCCRecordDate	bigint	The date of record changed.	0
36	NCCNoDeliveryStartDate	bigint	Date from when physical delivery of share certificates is stopped for book closure.	0
37	NCCNoDeliveryEndDate	bigint	Date from when physical delivery of share certificates starts after book closure.	0
38	NCCOptrangeLowPrice	bigint	Optrange low price	76650000
39	NCCoptrangeHighPrice	bigint	Optrange high price	94350000
40	NCCExDate	bigint	Last date of trading before any corporate action	0
41	NCCBookClosurestStartDate	bigint	Date at which the record books in the company for shareholder names starts.	0
42	NCCBookClosureEndDate	bigint	Date at which the record books in the company for shareholder names ends.	0
43	NCCUpdateDateTime	bigint	The time when this data was modified (In seconds).	1221249342
44	NCCExerciseStartDate	bigint	The starting date for Exercise (In seconds).	1222387200
45	NCCExerciseEndDate	bigint	Last date for Exercise.	1222439400
46	NCCTickerSelection	bigint	Ticker selection	15
47	NCCQtyMultiplier	bigint	Quantity multiplier	1000
48	NCC CreditRating	varchar(12)	Credit rating of the security.	
49	NCCStockName	varchar(25)	Stock name details	EURINR18SEP75.25CE
50	NCCCorporate PurposeAGMEGM	bigint	This field contains the EX STYLE / EGM / AGM / Interest / Bonus / Rights / Dividend flags set depending on the corporate action.	0
51	NCCCorporate PurposeInterestDividend	bigint	No Interest/ Dividend =0 Interest =1 Dividend =2	0
52	NCCCorporate PurposeRightBonus	bigint	No Rights/Bonus =0 Rights =1 Bonus =2 Both Rights and Bonus =3	0
53	NCCSpecialTerms	bigint	Special Terms Orders are orders in the normal market which have special attribute attached to it. They must have Minimum Fill (MF) or All Or None (AON).	0
54	NCCRemarks	varchar(25)	This field contains the remarks.	blank

55	NCCExcerciseStyle	varchar(1)	American style Exercise allowed =A European style Exercise allowed =E	E
56	NCCExcerciseAllowed	varchar(1)	Exercise is allowed on this contract if this Flag is set to true.	N
57	NCCExcerciseRejectionAllowed	varchar(1)	Exercise rejection is allowed on this contract if this bit is set to true.	N
58	NCCPositionLiquidationAllowed	varchar(1)	Position liquidation is allowed on this contract if this flag is set to true.	N
59	NCCCheckSum	varchar(1)	Not used.	blank
60	NCCCorporateActionAdjusted	varchar(1)	This field shows whether this Contract is Corporate Adjusted.	N
61	NCCUnderlying Asset ASSETSymbol	varchar(30)	Name of the underlying asset.	EURINR
62	NCCAssetInstrument	varchar(10)	Underlying asset type.	
63	NCCBasePrice	bigint	Base price of the security.	85500000
64	NCCDeleteFlag	bigint	This indicates the status of the security, whether the security is deleted or not.	Active = N Deleted =Y
65	NCCCreatedBy	bigint	Contract created internal ID User ID.	1
66	NCCCreatedAt	datetime(8)	Contract created time.	12:45:11 AM
67	NCCLastUpdatedBy	bigint	Updated last contract internal user ID.	1
68	NCCLastUpdatedAt	datetime(8)	Contract last updated time.	12:53:10 AM
69	NCCFIELD1	bigint	blank	
70	NCCFIELD2	datetime(8)	blank	
71	NCCFIELD3	varchar(30)	blank	
72	NCCFIELD4	varchar(254)	blank	
73	NCCROWSTATE	bigint	Rowstate	1
74	NCCRBIRate	bigint	RBI rate	e.g. 1

1.1.180 NCDEX Commodity Contract Search Request

Message Name	**NCDEXContractsSearch**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to see **NCDEX commodity contract details.**

Field Name	Type	Description	Values, meanings, Validations
symbol	varchar(30)	Unique symbol defined for each asset	COPPER

instrumenttype	varchar(10)	Instrumenttype	FUTCOM
expirydate	bigint	This date is the actual last trading date of the product (In seconds).	1228003200
optiontype	varchar(2)	This field contains the option type. CALL=CE PUT=PE	Future Contract= XX Option Contract = CE/PE
contractId	bigint	Contract internal number	912
SessionKey	varchar(62)	Unique key for identify user session	609800259-02193144198195199199
Thick Client	char(1)	Thick client	Y

1.1.181 NCDEX Commodity Contract Search Reply

Message Name	**NCDEXContractsSearch**
Type of Message	HTTP Response
Description	This is the reply message sent in response to see **NCDEX commodity contract details** request. The reply message contains the Contract id and the status of the transaction after it was processed (i.e. **success or failure**).

Field No	Field Name	Type	Description	Values, meanings, Validations
Record1:Field1	Status of request	Bigint	Successful=0 Failed=1	0
Record1:Field2	Error Details	Varchar	If Field1= 1 then error message otherwise blank	Blank
Record1:Field3	Number of data records	Int	Number of data records	1
Record 2	Column Data	Varchar	Data per Column header	912|1912|FUTCOM|COPPER|30 Nov 2018|-0.01|XX

Details Description of Record 2: Data per Column Header

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Id	bigint	Internal Contract ID	912
2	Token	bigint	Internal token no	1912
3	InstrumentName	varchar(10)	InstrumentName	FUTCOM
4	Symbol	varchar(30)	Unique symbol defined for each asset	COPPER
5	ExpiryDate	datetime(8)	This date is the actual last trading date of the Product. DD-MMM-YYYY format	30 Nov 2018
6	StrikePrice	bigint	Strike price of option contract.	Future contract= -0.01

				Currency Option Contract= Strike Price * 10000 All other market= Strike Price * 100
7	OptionType	varchar(2)	This field contains the option type. CALL=CE PUT=PE	Future contract= XX Option Contract = CE/PE

1.1.182 NCDEX Commodity Contract Details Request

Message Name	**ListNCDEXContracts**
Type of Message Request	HTTP
Description	This request message is sent by the TPS to the BOW when the user wants to see **NCDEX commodity contract details.**

Field Name	Type	Description	Values, meanings, Validations
NCDID	bigint	Contract internal id	156
SessionKey	varchar(62)	Unique key for identify user session	609800259-02193144198195199199
Thick Client	char(1)	Thick client	Y

1.1.183 NCDEX Commodity Contract Details Reply

Message Name	**NCDEXContractsSearch**
Type of Message	HTTP Response
Description	This is the reply message sent in response to see **NCDEX commodity contract details** request. The reply message contains the Contract id and the status of the transaction after it was processed (i.e. **success or failure**).

Field No	Field Name	Type	Description	Values, meanings, Validations
Record1:Field1	Status of request	bigint	Successful=0 Failed=1	0
Record1:Field2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
Record 2	Number of data records	int	Number of data records	1
Record 3	Column	varchar	Blank	NCDID|NCDTimestamp1|NCDLogTi

	Header			me|NCDToken|NCDInstrumentName|NCDSymbol|NCDSeries|NCDExpiryDate|NCDStrikePrice|NCDOptionType|NCDCALevel|NCDPermittedToTrade|NCDIssuedCapital|NCDWarningPercent|NCDFreezePercent|NCDCreditRating|NCDNormalEligibility|NCDNormalStatus|NCDOddlotEligibility|NCDOddlotStatus|NCDSpotEligibility|NCDSpotStatus|NCDAuctionEligibility|NCDAuctionStatus|NCDIssueRate|NCDIssueStartDate|NCDInterestPayment|NCDIssueMaturityDate|NCDBoardLotQuantity|NCDTickSize|NCDName|NCDListingDate|NCDExpulsionDate|NCDReAdmissionDate|NCDRecordDate|NCDLowPriceRange|NCDHighPriceRange|NCDExpiryDate1|NCDNoDeliveryStartDate|NCDNoDeliveryEndDate|NCDEligibilityIndicator|NCDBookClosureStartDate|NCDBookClosureEndDate|NCDExerciseStartDate|NCDExerciseEndDate|NCDOldToken|NCDAssetInstrument|NCDAssetName|NCDAssetToken|NCDIntrinsicValue|NCDExtrinsicValue|NCDPurpose|NCDLocalUpdateTime|NCDPriceUnit|NCDQuantityUnit|NCDPriceNumerator|NCDPriceDenominator|NCDDeliveryUnit|NCDDeliveryLot|NCDMarginPercentage|NCDCreatedBy|NCDCreatedAt|NCDMinimumLotQty|NCDTickerSelection|NCDLastUpdatedBy|NCDLastUpdatedAt|NCDEGMAGM|NCDInterestDivident|NCDFIELD1|NCDFIELD2|NCDRightBonus|NCDMFAON|NCDFIELD3|NCDFIELD4|NCDRemarks|NCDEXstyle|NCDROWSTATE|NCDExAllowed|NCDExRejectionAllowed|NCDP1Allowed|NCDCheckSum|NCDIsCorporateAdjusted|NCDBasePrice|NCDDeleteFlag|NCDMarketName1|NCDMarketName2|NCDMarketName3|NCDMarketName4|NCDDeliveryType|NCDDeliveryStartDate|NCDDeliveryEndDate|NCDAssetGradeSpec|NCDAssetLocation|NCDSalesTaxIncluded
Record 4	Column Data	varchar	Data per Column header	912|0|0|1912|FUTCOM|COPPER|XX|30 Nov 2018|-1|XX|0|1|999999999999|0|50||1|1|0|

				2|0|2|0|0|0|01-06-2018|0|26-06-2018|1|5|COPPER30NOV2018|01-06-2018||||453.30|491.00||22-11-2018 00:00:00:000|27-11-2018 00:00:00:000|0|||||0||COPPER|0|0|0|0|25-06-2018 00:00:00:000|Rs/Kg|MT|1000|1|MT|1|524.00|1|01-06-2018 09:05:19:187|1|15|1|26-06-2018 10:04:22:853|0 |1 |6380000||0 |0 |6380000|COPPER| |E |1|Y |Y |N | |N |47215|N |METAL||||M|22 Nov 2018|27 Nov 2018|Copper Cathode|MUMBAI|N|

Details Description of Record 3: Data per Column Header

Field No	Field Name	Type	Description	Values, meanings, Validations
1	NCDID	bigint	Internal ID	912
2	NCDTimestamp1	bigint	The time the message arrives at the trading system host. This should be set to numeric zero while sending to host.	0
3	NCDLogTime	bigint	LogTime	0
4	NCDToken	bigint	The token number of the Contract.This is internal token number received in Scrip/Contract Master	1912
5	NCDInstrumentName	varchar(10)	InstrumentName	FUTCOM
6	NCDSymbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	COPPER
7	NCDSeries	char(2)	Unique Series Id	XX
8	NCDExpiryDate	datetime(8)	This date is the actual last trading date of the Product.	30-Nov-18
9	NCDStrikePrice	bigint	Strike price of option contract.	Future contract= -1 Currency Option Contract= Strike Price * 10000 All other market= Strike Price * 100
10	NCDOptionType	char(2)	This field contains the option type. CALL= CE PUT = PE	Future contract= XX Option Contract = CE/PE
11	NCDCALevel	bigint	The Corporate Action Level.	0

			For messages coming sent from TWS, it should be zero.	
12	NCDPermittedToTrade	bigint	This field contains one of the following values. Listed but not permitted to trade =0 Permitted to trade =1	1
13	NCDIssuedCapital	bigint	Issue size	1000000000000
14	NCDWarningPercent	bigint	This field contains the warning percentage. If a broker exceeds his turnover by this value in percent, then a warning message is broadcast to all traders	0
15	NCDFreezePercent	bigint	Freeze Percent for the security. If a broker exceeds his turnover by this value in percent, the broker is deactivated and a message is broadcast to all traders	50
16	NCDCreditRating	varchar(30)	This field contains the credit rating of the security.	
17	NCDNormalEligibility	bigint	The flag is set to 1 if the security is allowed to trade in a particular market.	1
18	NCDNormalStatus	bigint	Normal Status	1
19	NCDOddlotEligibility	bigint	Odd lot elogibility	0
20	NCDOddlotStatus	bigint	ODD lot status	2
21	NCDSpotEligibility	bigint	Spot Eligibility	0
22	NCDSpotStatus	bigint	Spot Status	2
23	NCDAuctionEligibility	bigint	Auction Eligibility	0
24	NCDAuctionStatus	bigint	Auction Status	0
25	NCDIssueRate	datetime(8)	Price of the issue.	0
26	NCDIssueStartDate	datetime(8)	Date of issue of the security.	01-06-2018
27	NCDInterestPayment	bigint	Interest Payment Date	0
28	NCDIssueMaturityDate	datetime(8)	Maturity Date.	26-06-2018
29	NCDBoardLotQuantity	bigint	This field contains the board lot quantity. The regular lot order quantity must be a multiple of this quantity	1
30	NCDTickSize	bigint	This field contains the tick size. The order price, and the trigger price - if applicable, must be a multiple of this tick size	5
31	NCDName	varchar(62)	Company Name	COPPER30NOV201

				8
32	NCDListingDate	datetime(8)	Date of listing.	01-06-2018
33	NCDExpulsionDate	datetime(8)	Date of expulsion.	
34	NCDReAdmissionDate	datetime(8)	Date of readmission	
35	NCDRecordDate	datetime(8)	Date of record changed.	
36	NCDLowPriceRange	bigint	Minimum price at which order can be placed without causing a price freeze.	453.3
37	NCDHighPriceRange	bigint	Maximum price at which order can be placed without causing a price freeze.	491
38	NCDExpiryDate1	datetime(8)	Last date of trading before any corporate action.	
39	NCDNoDeliveryStartDate	datetime(8)	Date from when physical delivery of share certificates is stopped for book closure.	22-11-2018 00:00:00:000
40	NCDNoDeliveryEndDate	datetime(8)	Date from when physical delivery of share certificates starts after book closure	27-11-2018 00:00:00:000
41	NCDEligibilityIndicator	bigint	Eligibility Indicators	0
42	NCDBookClosureStartDate	bigint	Filler	
43	NCDBookClosureEndDate	bigint	Filler	
44	NCDExerciseStartDate	bigint	Filler	
45	NCDExerciseEndDate	bigint	Filler	
46	NCDOldToken	bigint	OldToken	0
47	NCDAssetInstrument	varchar(30)	Underlying asset type.	
48	NCDAssetName	varchar(30)	Name of the underlying asset.	COPPER
49	NCDAssetToken	bigint	Token Number of the asset	0
50	NCDIntrinsicValue	bigint	IntrinsicValue	0
51	NCDExtrinsicValue	bigint	ExtrinsicValue	0
52	NCDPurpose	bigint	Purpose	0
53	NCDLocalUpdateTime	bigint	LocalUpdateTime	25-06-2018 00:00:00:000
54	NCDPriceUnit	varchar(50)	PriceUnit	Rs/Kg
55	NCDQuantityUnit	varchar(50)	QuantityUnit	MT
56	NCDPriceNumerator	bigint	Value to be used for deriving the trade Value.	1000
57	NCDPriceDenominator	bigint	Value to be used for deriving the trade Value.	1
58	NCDDeliveryUnit	varchar(50)	DeliveryUnit	MT
59	NCDDeliveryLot	bigint	Delivery Lot	1
60	NCDMarginPercentage	bigint	Margin Percentage	524

61	NCDCreatedBy	bigint	Contract created User ID.	1
62	NCDCreatedAt	datetime(8)	Contract created time.	01-06-2018 09:05:19:187
63	NCDMinimumLotQty	bigint	MinimumLotQty	1
64	NCDTickerSelection	bigint	Ticker Selection	15
65	NCDLastUpdatedBy	bigint	Updated last contract user ID.	1
66	NCDLastUpdatedAt	datetime(8)	Contract last updated time.	26-06-2018 10:04:22:853
67	NCDEGMAGM	bigint	Blank	0
68	NCDInterestDivident	bigint	Blank	1
69	NCDFIELD1	bigint	Filler	6380000
70	NCDFIELD2	datetime(8)	Filler	
71	NCDRightBonus	bigint	No Rights/Bonus=0 Rights=1 Bonus=2 'Both Rights and Bonus=3	0
72	NCDMFAON	bigint	MF/AON not allowed=0 MF allowed=1 AON allowed=2 MF and AON allowed=3	0
73	NCDFIELD3	varchar(30)	ISIN number of security	6380000
74	NCDFIELD4	varchar(254)	Symbol name	COPPER
75	NCDRemarks	bigint	NCDRemarks	Blank
76	NCDEXstyle	char(1)	A' - American style Exercise allowed 'E' - European style Exercise allowed	E
77	NCDROWSTATE	bigint	ROWSTATE	1
78	NCDExAllowed	char(10)	Exercise is allowed on this contract if this Flag is set to true.	Y
79	NCDExRejectionAllowed	char(10)	Exercise rejection is allowed on this contract if this bit is set to true.	Y
80	NCDP1Allowed	char(10)	Position liquidation is allowed on this contract if this flag is set to true.	N
81	NCDCheckSum	char(10)	Filler	
82	NCDIsCorporateAdjusted	char(10)	This field shows whether this Contract is Corporate Adjusted.	N
83	NCDBasePrice	bigint	Base price of the security.	47215
84	NCDDeleteFlag	char(10)	This indicates the status of the security, whether the security is deleted or not. Active=N Deleted=Y	N
85	NCDMarketName1	varchar(5)	NCDMarketName1	METAL
86	NCDMarketName2	varchar(5)	Filler	Blank
87	NCDMarketName3	varchar(5)	Filler	Blank

88	NCDMarketName4	varchar(5)	Filler	Blank
89	NCDDeliveryType	char(1)	NCDDeliveryType	M
90	NCDDeliveryStartDate	datetime(8)	Start date of the delivery period. Not applicable for options & spreads & underlying. E.g. 01-DEC-2018. DD-MMMYYYY format	22-Nov-18
91	NCDDeliveryEndDate	bigint	Last date of the delivery period. Not applicable for options & spreads & underlying. E.g. 06-DEC-2018. DD-MMMYYYY format	27-Nov-18
92	NCDAssetGradeSpec	varchar(30)	AssetGradeSpec	Copper Cathode
93	NCDAssetLocation	varchar(30)	AssetLocation	MUMBAI
94	NCDSalesTaxIncluded	char(1)	SalesTaxIncluded	

1.1.184 MCX Commodity Search Request

Message Name	**MCXContractsSearch**
Type of Message Request	HTTP
Description	This request message is sent by the TPS to the BOW when the user wants to see **MCX commodity contract Details.**

Field Name	Type	Description	Values, meanings, Validations
symbol	varchar(30)	Unique symbol defined for each asset	SILVER
instrumenttype	varchar(10)	Instrumenttype	FUTCOM
expirydate	bigint	This date is the actual last trading date of the Product (In seconds).	e.g. 1544054399
optiontype	varchar(2)	This field contains the option type. CALL=CE PUT=PE	Future Contract=XX Option Contract = CE/PE
contractId	bigint	Contract internal number	1092
SessionKey	varchar(62)	Unique key for identify user session	1147847574-01009060060
Thick Client	char(1)	Thick client	Y

1.1.185 MCX Commodity Contract Search Reply

Message Name	**MCXContractsSearch**
Type of Message	HTTP Response
Description	This is the reply message sent in response to see **MCX cpmmodity contract Details** request. The reply message contains the Contract id and the status of the transaction after it was processed (i.e. **success or failure**).

Field No	Field Name	Type	Description	Values, meanings, Validations
Record1:Field1	Status of request	bigint	Successful=0 Failed=1	0
Record1:Field2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
Record1:Field3	Number of data records	Int	Number of data records	1
Record 2	Column Data	varchar	Data per Column header	912|1912|FUTCOM|COPPER|30 Nov 2018|-0.01|XX

Details Description of Record 2: Data per Column Header

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Id	bigint	Internal Contract ID	1092
2	Token	bigint	Internal token no	209716
3	InstrumentName	varchar(10)	InstrumentName	FUTCOM
4	Symbol	varchar(30)	Unique symbol defined for each asset	SILVER
5	ExpiryDate	datetime(8)	This date is the actual last trading date of the Product. DD-MMM-YYYY format	05-Dec-18
6	StrikePrice	bigint	Strike price of option contract.	Future contract= -0.01 Currency Option Contract= Strike Price * 10000 All other market= Strike Price * 100
7	OptionType	varchar(2)	This field contains the option type. CALL=CE / PUT=PE	Future Contract= XX Option Contract = CE/PE

1.1.186 MCX Commodity Contract Details Request

Message Name	**ListMCXContracts**
Type of Message Request	HTTP
Description	This request message is sent by the TPS to the BOW when the user wants to see **MCX commodity contract Details.**

Field Name	Type	Description	Values, meanings, Validations
MCID	bigint	Internal id	1092
SessionKey	varchar(62)	Unique key for identify user session	1147847574-01009060060
Thick Client	char(1)	Thick client	Y

1.1.187 MCX Commodity Contract Details Reply

Message Name	**ListMCXContracts**
Type of Message	HTTP Response
Description	This is the reply message sent in response to see **MCX commodity contract details** request. The reply message contains the Contract id and the status of the transaction after it was processed (i.e. **success or failure**).

Field No	Field Name	Type	Description	Values, meanings, Validations
Record1:Field1	Status of request	Bigint	Successful=0 Failed=1	0
Record1:Field2	Error Details	Varchar	If Field1= 1 then error message otherwise blank	Blank
Record 2	Number of data records	Int	Number of data records	1
Record 3	Column Header	varchar	Blank	MCID|MCSequenceId|MCInstrumentName|MCInstrumentId|MCToken|MCUnderlyingAsset|MCContractCode|MCStrikePrice|MCOptionType|MCCommodityAsset|MCCommodityGroup|MCExpiryDate|MCBasePrice|MCContractDescription|MCQuotationUnit|MCMaxOrderValue|MCMaxOrderQuantity|MCDailyPriceRange|MCQuotationMetric|MCBoardLot|MCPriceTick|MCNearMonthContract|MCFarMonthContract|MCStartDate|MCEndDate|MCTenderStartDate|MCTenderEndD

				ate|MCDeliveryStartDate|MCDeliveryEndDate|MCMarginIndicator|MCRegularBuyMargin|MCRegularSellMargin|MCSpecialBuyMargin|MCSpecialSellMargin|MCTenderBuyMargin|MCTenderSellMargin|MCDeliveryBuyMargin|MCDeliverySellMargin|MCLimitForAllClient|MCLimitOnlyAllClient|MCLimitOnlyAllOwn|MCLimitPerClient|MCLimitPerOwn|MCDeleted|MCRemarks|MCCreatedBy|MCCreatedAt|MCLastUpdatedBy|MCLastUpdatedAt|MCPriceNumerator|MCPriceDenominator|MCGeneralNumerator|MCGeneralDenominator
Record 4	Column Data	Varchar	Data per Column header	1092|1092|FUTCOM|209716|209716|SILVER|SILVER|-1|XX|KGS|PRECIOUS METAL|05 Dec 2018|389|0|1|20|3897900|4|KGS|30 1.0000|100.00|||01 Jan 1970|01 Jan 1970|01 Jan 1970|01 Jan 1970|01 Jan 1970|01 Jan 1970|0|3.9999|3.9999|0|0|0|0|0|0|0|0|0|0|0|N||2|12:42:26 PM|2|08:32:58 AM|1.00|1.00|1.00|1.00|

Detail Description of Record 3: Data per Column Header

No	Field Name	Type	Description	Values, meanings, Validations
1	MCID	bigint	Internal ID	1092
2	MCSequenceId	bigint	Contract sequence ID	1092
3	MCInstrumentName	varchar(10)	Instrument Name	FUTCOM
4	MCInstrumentId	bigint	Instrument Id	209716
5	MCToken	bigint	Contract internal token	209716
6	MCUnderlyingAsset	varchar	Underlying Asset	SILVER
7	MCContractCode	varchar(30)	Unique symbol / Asset Code defined for each asset	SILVER
8	MCStrikePrice	bigint	Strike price of option contract.	Future contract= -1 Currency Option Contract= Strike Price * 10000

				All other market= Strike Price * 100
9	MCOptionType	char(2)	This field contains the option type. CALL=CE PUT=PE	Future contract= XX Option Contract = CE/PE
10	MCCommodityAsset	varchar(14)	Commodity Asset Unit	KGS
11	MCCommodityGroup	varchar(13)	Commodity Group(Group name depend on contract code)	PRECIOUS METAL
12	MCExpiryDate	datetime(8)	This date is the actual last trading date of the Product. DD-MMM-YYYY format	05-Dec-18
13	MCBasePrice	bigint	The base price of the stock.	389
14	MCContractDescription	varchar(30)	Contract Description	0
15	MCQuotationUnit	bigint	Unit in which underlying asset is quoted.	1
16	MCMaxOrderValue	bigint	This field contain max order value.	20
17	MCMaxOrderQuantity	bigint	Maximum order quantity	3897900
18	MCDailyPriceRange	bigint	Daily Price Range	4
19	MCQuotationMetric	varchar(6)	Quotation Metric	KGS
20	MCBoardLot	bigint	The board lot quantity. The regular lot order quantity must be a multiple of this quantity.	30 1.0000
21	MCPriceTick	bigint	The tick size. The order price, and the trigger price - if applicable, must be a multiple of this tick size.	100
22	MCNearMonthContract	bigint	Contract near month contract ID	Filler
23	MCFarMonthContract	bigint	Contract far month Contract ID	Filler
24	MCStartDate	datetime(8)	Start date of the contract. E.g. 16-DEC2018. DD-MMM-YYYY format	01-Jan-70
25	MCEndDate	datetime(8)	Last trading date of the contract. e.g. 05DEC-2018. DD-MMM-YYYY format.	01-Jan-70
26	MCTenderStartDate	datetime(8)	Start date of the tender period. Not applicable for options & spreads & underlying. E.g. 01-DEC-2018. DD-MMMYYYY format.	01-Jan-70
27	MCTenderEndDate	datetime(8)	Last date of the tender period. Not applicable for options & spreads & underlying. E.g. 06-DEC-2018. DD-MMMYYYY format.	01-Jan-70
28	MCDeliveryStartDate	datetime(8)	Start date of the delivery period. Not applicable for	01-Jan-70

			options & spreads & underlying. E.g. 01-DEC-2018. DD-MMMYYYY format	
29	MCDeliveryEndDate	datetime(8)	Last date of the delivery period. Not applicable for options & spreads & underlying. E.g. 06-DEC-2018. DD-MMMYYYY format	01-Jan-70
30	MCMarginIndicator	bigint	Blank	Blank
31	MCRegularBuyMargin	bigint	RegularBuyMargin	3.9999
32	MCRegularSellMargin	bigint	RegularSellMargin	3.9999
33	MCSpecialBuyMargin	bigint	Special Buy Margin	0
34	MCSpecialSellMargin	bigint	Special Sell Margin	0
35	MCTenderBuyMargin	bigint	Tender Buy Margin	0
36	MCTenderSellMargin	bigint	Tender Sell Margin	0
37	MCDeliveryBuyMargin	bigint	Delivery Buy Margin	0
38	MCDeliverySellMargin	bigint	Delivery Sell Margin	0
39	MCLimitForAllClient	bigint	Limit For All Client	0
40	MCLimitOnlyAllClient	bigint	Limit Only All Client	0
41	MCLimitOnlyAllOwn	bigint	Limit Only All Own	0
42	MCLimitPerClient	bigint	Limit Per Client	0
43	MCLimitPerOwn	bigint	Limit Per Own	0
44	MCDeleted	char(1)	This will contain one of the following values to denote whether the contract is deleted or not.	N
45	MCRemarks	varchar(30)	Filler	Filler
46	MCCreatedBy	bigint	Contract created User ID.	2
47	MCCreatedAt	datetime(8)	Contract created time.	12:42:26 PM
48	MCLastUpdatedBy	bigint	Updated last contract user ID.	2
49	MCLastUpdatedAt	datetime(8)	Contract last updated time.	8:32:58 AM
50	MCPriceNumerator	bigint	Price Numerator	1
51	MCPriceDenominator	bigint	Price denominator	1
52	MCGeneralNumerator	bigint	General Numerator	1
53	MCGeneralDenominator	bigint	General Denominator	1

1.1.188 Position Conversion PreEdit Request

Message Name	**PreEditChangeMarginForDelivery**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to change their position from **CNC to IntraDay or IntraDay to CNC.**

Field Name	Type	Description	Values, meanings, Validations
OEToken	int	Contract Internal ID	61722
OEDestination	int	Exchange ID	For details Refer to Appendix section 1.1
OEMarket	int	Market ID	For details Refer to

			Appendix section 1.1
USID	bigint	Internal user login id	16377
ADMINUSID	bigint	Admin USID	2
MarginToDelivery	N	Intra Day=N CNC=Y	N
SessionKey	varchar(62)	Unique key for identify user session	2007100101-0420420920615521 0210
Thick Client	char(1)	Thick client	Y

1.1.189 Position Conversion PreEdit Reply

Message Name	**PreEditChangeMarginForDelivery**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **change position from CNC to IntraDay or IntraDay to CNC request**. The reply message contains the position id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum number of Records**	**2**		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, Meanings, Validations**
Record1:Field1	Status of request	int	Successful=0 Failed=1	0
Record1:Field2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
Record2	IntraDayCNC	bigint	Intraday and CNC Buy/Sell Position conversion	0|4|0|0
Record3 broughtforward (Not applicable for equity)	Column Data	varchar	Data per order	0|0|0|0|61722|1|4

Detail Description of Record 2: IntraDay and CNC Buy/Cell Position

Field No	**Field Name**	**Type**	**Description**	**Values, Meanings, Validations**
1	IntraDay Buy	bigint	IntraDay Buy	14
2	IntraDay Sell	bigint	IntraDay Sell	0
3	CNC Buy	bigint	CNC Buy	1
4	CNC Sell	bigint	CNC Sell	0

Detail Description of Record3: Column Data

Field No	Field Name	Type	Description	Values, meanings, Validations
1	SDID	bigint	Internal ID	0
2	BuyQuantity	bigint	Buy quantity	0
3	SellQuantity	bigint	Sell quantity	0
4	Segment ID	bigint	Segment ID	0
5	Token	bigint	Contract internal token	61722
6	Exchane	bigint	Exchange ID	For details Refer to Appendix section 1.1
7	Market	bigint	Market ID	For details Refer to Appendix section 1.1

1.1.190 Position Conversion Request

Message Name	**ChangeMarginForDelivery**
Type of Message	HTTP Request
Description	This is the reply message sent in response to **change position from CNC to IntraDay or IntraDay to CNC request**. The reply message contains the position id and the status of the transaction after it was processed (i.e. **success or failure**).

Field Name	Type	Description	Values, meanings, Validations
OEToken	int	Contract internal no	270
OEDestination	int	Exchange ID	For details Refer to Appendix section 1.1
OEMarket	int	Market ID	For details Refer to Appendix section 1.1
MarginToDelivery	int	Intraday=1 CNC=2	1
BuySellIndicator	bigint	Buy=1 Sell=2	1
Qty	bigint	Quantity	3
USID	bigint	Admin Login ID	16377
ADMINUSID	bigint	Admin Login ID	16377
Session key	varchar(62)	Unique key for identify user	2007100101-0420420920615521 0210
Thick Client	char(1)	Thick client	Y

1.1.191 Position Conversion Reply

Message Name	**ChangeMarginForDelivery**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **change position from CNC to IntraDay or IntraDay to CNC request**. The reply message contains the position id and the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum number of Records	1		
S. No	**Field Name**	**Type**	**Description**	**Values, earnings, Validations**
Record1:Field1	Status of request	Int	Successful=0 Failed=1	0
Record1:Field1	Error details	varchar	If field1=1 then error message otherwise blank	Blank

1.1.192 Deposit Details Query Request

Message Name	**ListMarginPositionNew**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants **to show deposit details which are used and remaining.**

Field Name	Type	Description	Values, eanings, Validations
USBackOfficeId	varchar(30)	The user ID/client ID for whom record to be fetch.	Client1-t9065
USLOGINID	varchar(30)	The user ID/client ID for whom record to be fetch.	Client1-t9065
SessionKey	varchar(62)	Unique key for identify user session	2035137874-01214266
Thick Client	char(1)	Thick client	Y

1.1.193 Deposit Details Query Reply

Message Name	**ListMarginPositionNew**
Type of Message	HTTP Response
Description	This is the reply message sent in response to **show deposit details which are used and remaining request**. The reply message contains the margin position and the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum number of Records	11		
Sr.No.	**Field Name**	**Type**	**Description**	**Values, eanings, Validations**
Record1	Status of request	int	Status of request and data summary details	0||1|20
Record2	Column Headers	varchar	Blank	Id|KEYIDENTIFIER|KEYVALUE|User|Category|Exchange|Market|Product|Eff. Deposit|Ledger

				Deposit|Adhoc Deposit|Equity Collateral|Derivatives Collateral|Commodities Collateral|Currency Collateral|P/L_Margin|MTM_Margin|Eq. Sales|Used Margin|Dep. Remaining
Record3	Column Types*	varchar	Denotes default visibility, alignemnt, and data type of the data column	SRNO|SLAO|SLAO|SLAO|SLAO|SLAO|SLAO|SLAO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO
Record4	Column Widths	Int	Width of the data column	0|0|0|60|100|100|100|100|100|100|100|100|100|100|100|100|100|100|100|100
Record5	Column Positions	Int	Position of the data column	1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|17|18|19|20
Record6	Column Data1	varchar	Data as per Column header	61932|YYYYN|16377^1^1^1^|Client1-T9065|Securities|BSE|Equity|ALL|1088000000.00|23564.00|85236.00|0.00|0.00|0.00|0.00|0.00|0.00|0.00|0.00|1088000000.00
Record7	Status of request	Int	Status of request and data summary details	0||2|13|
Record9	Column Headers	varchar	Blank	KEYVALUE|Exchange|User|Symbol|Buy Ord Qty|Buy Ord Val|Sell Ord Qty|Sell Ord Val|Intra/CNC|Net Traded Qty|Net Traded Val|Total Turnover|Deposit Used
Record10	Column Types*	varchar	Denotes default visibility, alignemnt, and data type of the data column	SLAO|SLAO|SLAO|SLAO|SRNO|SRNO|SRNO|SRNO|SLAO|SRNO|SRNO|SRNO|SRNO
Record11	Column Widths	Int	Width of the data column	0|80|80|80|80|80|80|80|80|80|80|80|80
Record12	Column Positions	Int	Position of the data column	0|1|2|4|9|10|11|12|13|14|15|16|17
Record13	Column Data1	varchar	Data per Column header 1	16377^1^1^3^5|BSE| Client1-T9065|GOLD 03 Aug 2018|1|2937800.0000|0|0.0000|IntraDay|0|0.0000|0.0000|205646.0000

Detail Description of Record 1: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of request	Int	Successful=0 Failed=1	0
2	Error Details	Varchar	If Field1= 1 then error message otherwise blank	Blank
3	Number of records	varchar	Blank	1
4	Number of Columns data	Varchar	Blank	20

Detail Description of Record 2: Column Header

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Id	bigint	Internal ID	61932
2	KEYIDENTIFIER	varchar(10)	Its Combination UserID, Category, Exchange, Market and Product. Available = Y All = N	YYYYN
3	KEYVALUE	varchar(30)	Security key combination of UserID, Category, Exchange, Market and Product.	16377^1^1^1^
4	User	varchar(30)	This field should contain the user ID of the user/broker.	Cliebt1-T9065
5	Category	varchar(30)	Security/Commoditiy	ALL
6	Exchange	varchar(10)	Exchange	ALL
7	Market	varchar(10)	Market	ALL
8	Product	varchar(10)	Internal Product Type CNC /Intraday	ALL
9	Eff. Deposit	bigint	Final deposit including multiplier and adhoc.	1088000000
10	Ledger Deposit	bigint	Cash deposit	23564
11	Adhoc Deposit	bigint	Additional deposit	85236
12	Equity Collateral	bigint	blank	0
13	Derivatives Collateral	bigint	blank	0
14	Commodities Collateral	bigint	blank	0
15	Currency Collateral	bigint	blank	0
16	P/L_Margin	bigint	Profit loss value to be included in margin which depends on user risk preference given.	0
17	MTM_Margin	bigint	MarkToMarket value to be	0

			included in margin which depends on user risk preference given.	
18	Eq. Sales	bigint	Equity sales	0
19	Used Margin	bigint	Deposit used	0
20	Dep. Remaining	bigint	Deposit Remaining	1088000000

Detail Description of Record 7: Status of Request and Data Summary Details

Field No	Field Name	Type	Description	Values, meanings, Validations
1	Status of request	int	Successful=0 Failed	0
2	Error Details	varchar	If Field1= 1 then error message otherwise blank	Blank
3	Number of Records with data.	int	Blank	2
4	Number of Column data.	varchar	Blank	13

Description of Record9: Column Header

Field No	Field Name	Type	Description	Values, meanings, Validations
1	KEYVALUE	varchar(50)	Security key combination of UserID, Category, Exchange, Market and Product.	16377^1^1^4^2
2	Exchange	varchar(10)	Exchange ID	For details Refer to Appendix section 1.1
3	User	varchar(30)	User login ID	Client1-T9065
4	Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset.	EURINR
5	Buy Ord Qty	bigint	Buy order total quantity.	0
6	Buy Ord Val	bigint	Buy order total value.	0
7	Sell Ord Qty	bigint	Sell order total quantity.	-1
8	Sell Ord Val	bigint	Sell order total value.	-78675
9	Intra/CNC	varchar(10)	Internal Product Type CNC /IntraDay	IntraDay
10	Net Traded Qty	bigint	The quantity that has been traded.	0
11	Net Traded Val	bigint	The net traded value.	0
12	Total Turnover	bigint	Total turnover amount.	157350
13	Deposit Used	bigint	Deposit used	0

1.1.194 List User Stocks Position Request

Message Name	**ListUserStocks**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW when the user wants to see **list of holding position.**

Field Name	Type	Description	Values, meanings, Validations
USBackOfficeId	varchar(30)	This field contains the user ID/client ID for whom holding position to be shown. If required for all users record then set blank.	Client1-T9065
USLOGINID	varchar(30)	This field contains the user ID/client ID for whom holding position to be shown.If required for all users record then set blank.	Client1-T9065
Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset. Symbol name for which record to be fetch. If required for all symbol record then set blank.	e.g. ACC Blank or Symbol name
SessionKey	varchar(62)	Unique key for identify user session.	1408789283-02275218
Thick Client	char(1)	Thick client	Y

1.1.195 List User Stocks Position Response

Message Name	**ListUserStocks**
Type of Message	HTTP Response
Description	This is the reply message sent in response **list of holding position request**. The reply message contains the the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum no of records	6		
Sr. No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	Status of Request	varchar	Status of request and data summary details	0||1|12|0
Record2	Column header	varchar	Column header	Select|User|Stock Name|DP/Pool|StockType|Today Sell|Net Available|CMP|CURR.

				VALUE|Token|USerID|P. Sett.
Record3	Column Types*	varchar	Denotes default visibility, alignemnt, and data type of the data column	SLAO|SLAO|SLAO|SRNO|SLAO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO|SRNO
Record4	Column Widths	int	Width of the data column	30|80|80|80|80|80|80|80|80|0|0|80
Record5	Column Positions	int	Position of the data column	1|1|2|3|4|5|6|7|8|11|12|15
Record6	Column Header	varchar	Data as per column header	SBIN|Client1-T9065|SBIN|75|EQDP|0|75|281.0000|21075.0000|60|16377|0
Record7	Data Summary	varchar	Data summary	|||||||21075.0000||||
Record8	Current date	datetime(8)	Current date	18-04-2019

Detail Description of Record1: Status of request and data summary details

Sr.No.	Field Name	Type	Description	Values, meanings, Validations
Record1:Field1	Status of request	int	Successful=0 Failed=1	0
Record1:Field2	Error Details	Varchar	If field= 1 then Error message Otherwise blank	
Record1:Field3	Number of records with data & summary	Number of records	Number of records and data summary	2
Record1:Field4	Number of Columns data	int	Number of columns headers	12
Record1:Field5	Total number of records	int	Total number of records	1

Detail Description of Record2: Column Header

Sr.No.	Field Name	Type	Description	Values, meanings, Validations
Record2:Field1	Select	Varchar(30)	Symbol Name	SBIN
Record2:Field2	User	Varchar(30)		Client1-T9065
Record2:Field3	Stock Name	Varchar(30)	Unique symbol / Asset Code defined for each asset.	SBIN
Record2:Field4	DP/Pool	bigint	DP Quantity	75
Record2:Field5	StockType	Varchar(30)	Stock Type	EQDP
Record2:Field6	Today Sell	bigint	Today Sell	0
Record2:Field7	Net Available	bigint	Net Available	75
Record2:Field8	CMP	bigint	Current market price	281

Record2:Field9	CURR. VALUE	bigint	Currenct value	21075
Record2:Field10	Token	bigint	Token Number	60
Record2:Field11	USerID	bigint	Internal User/Client login ID	16377
Record2:Field12	P. Sett.	bigint	P.Sett	0

Admin Section

1.1.196 Add/Remove User Deposite Request

Message Name	EditUserDeposit
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW terminal when the user wants to **Add deposit for clients or Remove already added Deposit.**

Field Name	Type	Description	Values, meanings, Validations
UDID0	bigint	NA	Blank
UDUSID0	bigint	User deposite internal Login ID	73
UDDepositLevel0	bigint	Deposite level User Level = 0	0
UDOrderType0	varchar(5)	Order Type	1,2
UDCategory0	bigint	User deposit category All= Blank	
UDExchange0	bigint	Exchange ID	Blank
UDMarket0	bigint	Market ID	Blank
UDSEGMENT0	bigint	Segment ID	Blank
UDDeposit0	bigint	Effective user deposit to be added Overall User Level. This field is a multiplication of UDAmount10 (Cash Deposit) & UDAmount20 (Multiplier). Adhock Deposit can also added in Cash Deposit.	2000000000
UDROWSTATE0	bigint	For Addition of Deposit = 1 For deletion of Deposit = 0	1
UDAmount10	bigint	Cash Deposit: - Actual Deposit set or received from backoffice.This should be multiplied by 10,000 while sending the request to OMS.	1000000000
UDAmount20	bigint	Multiplier Multiplier filed should be multipled by 10000. For eg. User sets the multipler 1 then while sending request it should be sent as 10000	20000
UDADHOCMARGIN0	bigint	User deposit Adhoc Margin. This is Adhock Deposit and should be sent by multiplied by 10,000.	0
UDMarkToMarketFactor0	bigint	Mark to market Mltiplier. Don’t check MTM Limit = -1 If >0 then multiplier will be considered for MTM Limits. Values should be multiplied by 10,000	-1, 0, 10,000
UDValidTill0	datetime(8)	Valid date	Blank

<table>
<tr><td>UDFIELD50</td><td>bigint</td><td>Actual MTM limit. This field should be multiplied by UDMarkToMarketFactor(MTMLimit) and UDDeposit0(Actual Deposit)</td><td>-1</td></tr>
<tr><td>UDFIELD60</td><td>bigint</td><td>Consider Adhock Deposit Flag for Margin. Consider Adhock for Margin= 1
Don’t consider Adhock for Margin= 0</td><td>1</td></tr>
<tr><td>UDFIELD70</td><td>bigint</td><td>Consider Adhock Deposit Flag for MTM Limits.
Consider Adhock for MTM= 1
Don’t consider Adhock for MTM= 0</td><td>0</td></tr>
<tr><td>UDID1:</td><td>bigint</td><td>NA</td><td></td></tr>
<tr><td>UDUSID1</td><td>bigint</td><td>User deposite internal Login ID</td><td>73</td></tr>
<tr><td>UDDepositLevel1</td><td>bigint</td><td>Deposite level to be applied. Based on Deposit Level further records needs to be sent.for e.g. Level is 44 then Exchange, Market & Segement Ids along with values (Not blank) should be sent in request.
<table>
<tr><td></td><td></td></tr>
<tr><td>User→Securitites/Commodities</td><td>11</td></tr>
<tr><td>User→Securitites/Commodities →Exchange</td><td>22</td></tr>
<tr><td>User→Securitites/Commodities →Exchange→Market</td><td>33</td></tr>
<tr><td>User→Securitites/Commodities →Exchange→Market→Segment</td><td>44</td></tr>
<tr><td>User→Securitites/Commodities →Market</td><td>55</td></tr>
<tr><td>User→Securitites/Commodities →Market→Segment</td><td>66</td></tr>
<tr><td>User→Exchange</td><td>77</td></tr>
</table></td><td>11</td></tr>
<tr><td>UDOrderType1</td><td>varchar(5)</td><td>Order Type</td><td>1,2</td></tr>
<tr><td>UDCategory1</td><td>bigint</td><td>Category Type
If UDDepositLevel1 field value=77 then Blank otherwise
Securities=1
Commodities=2</td><td>1</td></tr>
<tr><td>UDExchange1</td><td>bigint</td><td>If UDDepositLevel1 field value = 11 & 55 then Blank
Otherwise
Respective Exchange ID</td><td>For details Refer to Appendix section 1.1</td></tr>
<tr><td>UDMarket1</td><td>bigint</td><td>If UDDepositLevel1 field value=11,22 &77 then Blank
Otherwise
Respective Market ID</td><td>For details Refer to Appendix section 1.1</td></tr>
<tr><td>UDSEGMENT1</td><td>bigint</td><td>If UDDepositLevel1 field value=11,22,33,55 & 77 then Blank
otherwise
respective Segment ID
Intraday=1
Delivery=2</td><td>Blank</td></tr>
<tr><td>UDDeposit1:</td><td>bigint</td><td>Effective user deposit to be added Overall User</td><td>3000000000</td></tr>
</table>

<table>
<tr><td></td><td></td><td>Level. This field is a multiplication of UDAmount10 (Cash Deposit) & UDAmount20 (Multiplier). Adhock Deposit can also added in Cash Deposit.</td><td></td></tr>
<tr><td>UDROWSTATE1:</td><td>bigint</td><td>For Addition of Deposit = 1
For deletion of Deposit = 0</td><td>1</td></tr>
<tr><td>UDAmount11</td><td>bigint</td><td>Cash Deposit: - Actual Deposit set or received from backoffice.This should be multiplied by 10,000 while sending the request to OMS.</td><td>1000000000</td></tr>
<tr><td>UDAmount21</td><td>bigint</td><td>Multiplier
Multiplier filed should be multipled by 10000. For eg. User sets the multipler 1 then while sending request it should be sent as 10000</td><td>30000</td></tr>
<tr><td>UDADHOCMARGIN1</td><td>bigint</td><td>User deposit Adhoc
Margin. This is Adhock Deposit and should be sent by multiplied by 10,000.</td><td>0</td></tr>
<tr><td>UDMarkToMarketFactor1</td><td>bigint</td><td>Mark to market Mltiplier.
Don’t check MTM Limit = -1
If >0 then multiplier will be considered for MTM Limits. Values should be multiplied by 10,000</td><td>-1</td></tr>
<tr><td>UDValidTill1</td><td>datetime(8)</td><td>Valid date</td><td>Blank</td></tr>
<tr><td>UDFIELD51</td><td>bigint</td><td>Actual MTM limit. This field should be multiplied by UDMarkToMarketFactor(MTMLimit) and UDDeposit0(Actual Deposit)</td><td>-1</td></tr>
<tr><td>UDFIELD61</td><td>bigint</td><td>Consider Adhock Deposit Flag for Margin. Consider Adhock for Margin= 1
Don’t consider Adhock for Margin= 0</td><td>1</td></tr>
<tr><td>UDFIELD71</td><td>bigint</td><td>Consider Adhock Deposit Flag for MTM Limits.
Consider Adhock for MTM= 1
Don’t consider Adhock for MTM= 0</td><td>0</td></tr>
<tr><td>UDID2</td><td>bigint</td><td>NA</td><td></td></tr>
<tr><td>UDUSID2</td><td>bigint</td><td>User deposite internal Login ID</td><td>73</td></tr>
<tr><td>UDDepositLevel2</td><td>bigint</td><td>Deposite level to be applied. Based on Deposit Level further records needs to be sent.for e.g. Level is 44 then Exchange, Market & Segement Ids along with values (Not blank) should be sent in request.
<table>
<tr><td></td><td></td></tr>
<tr><td>User→Securitites/Commodities</td><td>11</td></tr>
<tr><td>User→Securitites/Commodities →Exchange</td><td>22</td></tr>
<tr><td>User→Securitites/Commodities →Exchange→Market</td><td>33</td></tr>
<tr><td>User→Securitites/Commodities →Exchange→Market→Segment</td><td>44</td></tr>
<tr><td>User→Securitites/Commodities →Market</td><td>55</td></tr>
<tr><td>User→Securitites/Commodities →Market→Segment</td><td>66</td></tr>
<tr><td>User→Exchange</td><td>77</td></tr>
</table></td><td>11</td></tr>
</table>

UDOrderType2	varchar(5)	Order Type	1,2
UDCategory2	bigint	Category Type If UDDepositLevel2 field value=77 then Blank otherwise Securities=1 Commodities=2	2
UDExchange2	bigint	If UDDepositLevel2 field value = 11 & 55 then Blank Otherwise Respective Exchange ID	For details Refer to Appendix section 1.1
UDMarket2	bigint	If UDDepositLevel2 field value=11,22 &77 then Blank Otherwise Respective Market ID	For details Refer to Appendix section 1.1
UDSEGMENT2	bigint	If UDDepositLevel2 field value=11,22,33,55 & 77 then Blank otherwise respective Segment ID Intraday=1 Delivery=2	Blank
UDDeposit2	bigint	Effective user deposit to be added Overall User Level. This field is a multiplication of UDAmount10 (Cash Deposit) & UDAmount20 (Multiplier). Adhock Deposit can also added in Cash Deposit.	4000000000
UDROWSTATE2	bigint	For Addition of Deposit = 1 For deletion of Deposit = 0	1
UDAmount12	bigint	Cash Deposit: - Actual Deposit set or received from backoffice.This should be multiplied by 10,000 while sending the request to OMS.	1000000000
UDAmount22	bigint	Multiplier Multiplier filed should be multipled by 10000. For eg. User sets the multipler 1 then while sending request it should be sent as 10000	40000
UDADHOCMARGIN2	bigint	User deposit Adhoc Margin. This is Adhock Deposit and should be sent by multiplied by 10,000.	0
UDMarkToMarketFactor2	bigint	Mark to market Mltiplier. Don't check MTM Limit = -1 If >0 then multiplier will be considered for MTM Limits. Values should be multiplied by 10,000	-1
UDValidTill2	datetime(8)	Valid date	Blank
UDFIELD52	bigint	Actual MTM limit. This field should be multiplied by UDMarkToMarketFactor(MTMLimit) and UDDeposit0(Actual Deposit)	-1
UDFIELD62	bigint	Consider Adhock Deposit Flag for Margin. Consider Adhock for Margin= 1 Don't consider Adhock for Margin= 0	1

UDFIELD72	bigint	Consider Adhock Deposit Flag for MTM Limits. Consider Adhock for MTM= 1 Don't consider Adhock for MTM= 0	0
rowcount	bigint	Total number of deposite record	3
USLOGINID	varchar(30)	The user ID/client ID for whom deposit to be added.	Client1-T9072
USBackOfficeId	varchar(30)	The user ID/client ID for whom deposit to be added.	Client1-T9072
SessionKey	varchar(62)	Unique key for identify user session.	1408789283-02275218
Thick Client	char(1)	Thick client	Y

Note: - By default User Level deposit (UDID0) should be there.
Number of records will be varied based on Deposit level selection. Based on selection of Deposit level & applicability of different Exchange, Segment and Market. Maximum number of records can be sent as 25.

1.1.197 Add User Deposite Reply

Message Name	**EditUserDeposit**
Type of Message	HTTP Response
Description	This is the reply message sent in response to retrieve **Add deposit for clients.** The reply message contains the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum Number of Records**	**6**	**HTTP Response**	
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of Request	int	Successful=0 Failed=1	0
Record1:Field2	Error Details message	varchar	Error or Successfully message Internal Rejection details if failed (Field1 = 1)	Succesfully Updated

1.1.198 List User Deposite for Client Request

Message Name	**ListUserDeposit**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW terminal when the admin wants to **know deposit for clients.**

Field Name	Type	Description	Values, meanings, Validations
exchange	int	Exchange ID for which deposite details to be fetch. If required for all the record then Set "Blank"	Blank For details Refer to Appendix section 1.1
market	int	Market ID for which deposite details to be fetch. If required for all the record then Set "Blank"	Blank For details Refer to Appendix section 1.1
segment	int	Product ID for which deposite details to be fetch. If required for all the record then Set "Blank" IntraDay=1 Delivery=2	
USBackOfficeId	varchar(30)	This field should contain the user ID/client ID for whom record to be fetch.	Client1-t9072
group	char(1)	Group	Y
SessionKey	varchar(62)	Unique key for identify user session	268144845-02162105
Thick Client	char(1)	Thick Client	Y

1.1.199 List User Deposite for Client Reply

Message Name	ListUserDeposit
Type of Message	HTTP Response
Description	This is the reply message sent in response to **know deposit for clients**. The reply message contains the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum Number of Records	6	HTTP Response	
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	Result of Request	int	Status of request and data summary details	0||1|12|
Record2	Column Headers	varchar	Column Headers(User level Deposite)	ID|User|Category|Exchange|Market|Product|Cash Deposit|Effective Deposit|Multiplier|AdhocAmount|MTM Multiplier|MTM Limit
Record3	Column Types*	varchar	Denotes default visibility, alignemnt, and data type of the data column	HLNO|SLAO|SLO|SLAO|SLO|SLAO|SLNO|SLNO|SLNO|SLNO|SLNO|SLNO
Record 4	Column Widths	int	Width of the data column	80|80|80|80|80|80|80|80|80|80|80|80

Record5	Column Positions	int	Position of the data column	1|2|3|4|5|6|7|8|18|19|20|21
Record6	Column Data1	varchar	Data as per column headers	97|Test1-T9072|||||100000.00|200000.00|2.0000|0.00||
Record7	Column Data2	varchar	Data as per column headers	98|Test1-T9072|Securities||||100000.00|300000.00|3.0000|0.00||
Record8	Column Data3	varchar	Data as per column headers	99|Test1-T9072|Commodities||||100000.00|400000.00|4.0000|0.00||

Detail Description of Record2: Status of request and data summary details

Sr.No.	Field Name	Type	Description	Values, meanings, Validations
Record1:Field1	Status of Request	int	Successful=0 Failed=1	0
Record1:Field2	Error Details message	varchar	Blank=Successful Internal Rejection details if failed (Field1 = 1)	
Record1:Field3	Number of records	varchar	Number of records	1
Record1:Field4	Total number of column headers	varchar	Total number of column headers	12

Detail Description of Record6: Column Headers (User Level Deposite)

Response	Minimum Number of Records	6	HTTP Response	
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
1	ID	bigint	Internal ID	97
2	User	varchar(30)	This field should contain the user ID/client ID for whom Deposite details to be shown.	Client1-T9072
3	Category	varchar(15)	For commodity All=Blank market=Commodities All other markets=Securities	
4	Exchange	varchar(10)	Exchange Name All=Blank	For details Refer to Appendix section 1.1
5	Market	varchar(15)	Market Name All=Blank	For details Refer to Appendix section 1.1
6	Product	varchar(10)	Product Type	Intraday

			All=Blank IntraDay/Delivery	
7	Cash Deposit	bigint	Cash Deposit: - Actual Deposit set or received from backoffice	100000.00
8	Effective Deposit	bigint	Effective Deposit	200000.00
9	Multiplier	bigint	Multiplier	2.0000
10	AdhocAmount	bigint	AdhocAmount	0.00
11	MTM Multiplier	bigint	MTM Multiplier	
12	MTM Limit	bigint	MTM Limit	

Detail Description of Record7: Column Headers

Response	Minimum Number of Records	6	HTTP Response	
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
1	ID	bigint	Internal ID	97
2	User	varchar(30)	This field should contain the user ID/client ID for whom Deposite details to be shown.	Client1-T9072
3	Category	varchar(15)	For commodity market=Commodities All other markets=Securities	Securities
4	Exchange	varchar(10)	Exchange Name All=Blank	For details Refer to Appendix section 1.1
5	Market	varchar(15)	Market Name All=Blank	For details Refer to Appendix section 1.1
6	Product	varchar(10)	Product Type All=Blank IntraDay/Delivery	Blank
7	Cash Deposit	bigint	Cash Deposit: - Actual Deposit set or received from backoffice	100000.00
8	Effective Deposit	bigint	Effective Deposit	300000.00
9	Multiplier	bigint	Multiplier	3.0000
10	AdhocAmount	bigint	AdhocAmount	0.00
11	MTM Multiplier	bigint	MTM Multiplier	
12	MTM Limit	bigint	MTM Limit	

Detail Description of Record8: Column Headers

Response	**Minimum Number of Records**	**6**	**HTTP Response**	
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
1	ID	bigint	Internal ID	97
2	User	varchar(30)	This field should contain the user ID/client ID for whom Deposite details to be shown.	Client1-T9072
3	Category	varchar(15)	For commodity market=Commodities All other markets=Securities	Commodities
4	Exchange	varchar(10)	Exchange Name All=Blank	For details Refer to Appendix section 1.1
5	Market	varchar(15)	Market Name All=Blank	For details Refer to Appendix section 1.1
6	Product	varchar(10)	Product Type All=Blank IntraDay/Delivery	
7	Cash Deposit	bigint	Cash Deposite(devide by 10,0000)	100000.00
8	Effective Deposit	bigint	Effective Deposit(devide by 10,0000)	300000.00
9	Multiplier	bigint	Multiplier (Devide by 10,0000)	4.0000
10	AdhocAmount	bigint	AdhocAmount	1
11	MTM Multiplier	bigint	MTM Multiplier	
12	MTM Limit	bigint	MTM Limit	

1.1.200 Modify User Deposite PreEdit Request

Message Name	**PreEditUserDeposit**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW terminal when the user wants to **modify deposit for clients.**

Field Name	**Type**	**Description**	**Values, meanings, Validations**
UDID	bigint	User deposite internal ID	97
SessionKey	varchar(62)	Unique key for identify user session	268144845-02162105
Thick Client	char(1)	Thick Client	Y

1.1.201 Modify User Deposite PreEdit Reply

Message Name	PreEditUserDeposit
Type of Message	HTTP Response
Description	This is the reply message sent in response to **modify deposit for clients**. The reply message contains the status of the transaction after it was processed (i.e. **success or failure**).

Response	Minimum Number of Records	3	HTTP Response	
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1	Result of Request	varchar	Status of request and data summary details	0||Test1-T9072|Test1-T9072
Record2:	Number of records selected for update	varchar	Number of records selected for update	1|
Record3	Column Headers	varchar	Column Headers(User level Deposite)	UDID|UDSequenceId|UDUSID|UDPFID|UDMarket|UDSEGMENT|UDOrderType|UDDeposit|UDCategory|UDExchange|UDDepositLevel|UDBankTransferAmount|UDLedgerAmount|UDNonCashComponent|UDAmount1|UDAmount2|UDAmount3|UDMarkToMarketFactor|UDValidTill|UDCreatedBy|UDCreatedAt|UDLastUpdatedBy|UDLastUpdatedAt|UDFIELD1|UDFIELD2|UDFIELD3|UDFIELD4|UDROWSTATE|UDADHOCMARGIN|UDDEPOSITCASH|UDDEPOSITDER|UDDEPOSITCOMM|UDDEPOSITCURR|UDFIELD5|UDFIELD6|UDFIELD7
Record4	Column Data1	varchar	Data as per column headers	97|141|73||||,1,2,|2000000000|||0||||1000000000|20000||-1||45|07-05-2019 11:43:54:427||||||1|0|0|0|0|0|-1|1|0
Record5	Column Data2	varchar	Data as per column headers	98|142|73||||,1,2,|3000000000|1||11||||1000000000|30000||-1||45|07-05-2019 11:43:54:430||||||1|0|0|0|

				0|0|-1|1|0
Record6	Column Data3	varchar	Data as per column headers	99|143|73||||,1,2, |4000000000|2||11||||1000000000|40000||-1||45|07-05-2019 11:43:54:433|||||||1|0|0|0|0|0|-1|1|0
Record7	Filler	varchar	Blank	Blank

Detail Description of Record2: Column Headers

Sr.No.	Field Name	Type	Description	Values, meanings, Validations
Record1:Field1	Number of records selected for update	int	Number of records selected for update	1
Record1:Field1	Filler	int	Filler	Blank

Detail Description of Record3: Column Headers

Response	Minimum Number of Records	6	HTTP Response	
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
1	UDID	bigint	User deposite internal ID	97
2	UDSequenceId	bigint	Sequence ID(Incremental)	141
3	UDUSID	bigint	The Internal ID of User/Client	73
4	UDPFID	bigint	PF ID	Blank
5	UDMarket	bigint	If UDDepositLevel1 field value=0,11,22 &77 then Blank Otherwise Respective Market ID	For details Refer to Appendix section 1.1
6	UDSEGMENT	bigint	If UDDepositLevel1 field value=0,11,22,33,55 & 77 then Blank otherwise respective Segment ID Intraday=1 Delivery=2	Blank
7	UDOrderType	varchar(10)	Order type	,1,2,
8	UDDeposit	bigint	Deposite level to be applied. Based on Deposit Level further records needs to be sent.for e.g. Level is 44 then Exchange, Market & Segement Ids along with values (Not blank) should be sent in request.	2000000000

User Level	0
User→Securitites/Commodities	11
User→Securitites/Commodities →Exchange	22
User→Securitites/Commodities →Exchange→Market	33
User→Securitites/Commodities →Exchange→Market→Segment	44
User→Securitites/Commodities →Market	55
User→Securitites/Commodities →Market→Segment	66
User→Exchange	77

9	UDCategory	bigint	Category Type If UDDepositLevel1 field value=0 & 77 0then Blank otherwise Securities=1 Commodities=2	Blank
10	UDExchange	bigint	If UDDepositLevel1 field value = 0,11 & 55 then Blank Otherwise Respective Exchange ID	For details Refer to Appendix section 1.1
11	UDDepositLevel	bigint	Deposite level User Level = 0	0
12	UDBankTransferAmount	bigint	NA	Blank
13	UDLedgerAmount	bigint	NA	Blank
14	UDNonCashComponent	bigint	NA	Blank
15	UDAmount1	bigint	User deposite amount1	1000000000
16	UDAmount2	bigint	User deposite amount2	20000
17	UDAmount3	bigint	User deposite amount3	
18	UDMarkToMarketFactor	bigint	Mark to market factor	-1
19	UDValidTill	datetime(8)	Valid date	
20	UDCreatedBy	bigint	Admin Internal ID	45
21	UDCreatedAt	datetime(8)	Entry time	07-05-2019 11:43:54:427
22	UDLastUpdatedBy		who has last modified the deposit	Blank
23	UDLastUpdatedAt	datetime(8)	Last modified time	Blank
24	UDFIELD1	bigint	Field1	Blank
25	UDFIELD2	datetime(8)	Filed2	Blank
26	UDFIELD3	varchar(30)	Filed3	Blank
27	UDFIELD4	varchar(254)	Filed4	Blank

28	UDROWSTATE	bigint	Rowstate	1
29	UDADHOCMARGIN	bigint	Adhoc margin	0
30	UDDEPOSITCASH	bigint	Deposit cash	0
31	UDDEPOSITDER	bigint	Deposite derivative	0
32	UDDEPOSITCOMM	bigint	Deposit commodity	0
33	UDDEPOSITCURR	bigint	Deposit currency	0
34	UDFIELD5	bigint	Field5	-1
35	UDFIELD6	bigint	Field6	1
36	UDFIELD7	bigint	Field7	0

1.1.202 Modify User Deposite Request

Message Name	**EditUserDeposit**
Type of Message	HTTP Request
Description	This request message is sent by the TPS to the BOW terminal when the user wants to **Modify deposit for clients.**

Field Name	Type	Description	Values, meanings, Validations
UDID0	bigint	NA	Blank
UDUSID0	bigint	User deposite internal Login ID	73
UDDepositLevel0	bigint	Deposite level User Level = 0	0
UDOrderType0	varchar(5)	Order Type	1,2
UDCategory0	bigint	User deposit category All= Blank	
UDExchange0	bigint	Exchange ID	Blank
UDMarket0	bigint	Market ID	Blank
UDSEGMENT0	bigint	Segment ID	Blank
UDDeposit0	bigint	Effective user deposit to be added Overall User Level. This field is a multiplication of UDAmount10 (Cash Deposit) & UDAmount20 (Multiplier). Adhock Deposit can also add in Cash Deposit.	5000000000
UDROWSTATE0	bigint	For Addition of Deposit = 1 For deletion of Deposit = 0	1
UDAmount10	bigint	Cash Deposit: - Actual Deposit set or received from backoffice.This should be multiplied by 10,000 while sending the request to OMS.	1000000000
UDAmount20	bigint	Multiplier Multiplier filed should be multipled by 10000. For eg. User sets the multipler 1 then while sending request it should be sent as 10000	50000

<table>
<tr><td></td><td></td><td></td><td></td></tr>
<tr><td>UDADHOCMARGIN0</td><td>bigint</td><td>User deposit Adhoc
Margin. This is Adhock Deposit and should be sent by multiplied by 10,000.</td><td>0</td></tr>
<tr><td>UDMarkToMarketFactor0</td><td>bigint</td><td>Mark to market Mltiplier.
Don’t check MTM Limit = -1
If >0 then multiplier will be considered for MTM Limits. Values should be multiplied by 10,000</td><td>-1,
0,
10,000</td></tr>
<tr><td>UDValidTill0</td><td>datetime(8)</td><td>Valid date</td><td>Blank</td></tr>
<tr><td>UDFIELD50</td><td>bigint</td><td>Actual MTM limit. This field should be multiplied by UDMarkToMarketFactor(MTMLimit) and UDDeposit0(Actual Deposit)</td><td>-1</td></tr>
<tr><td>UDFIELD60</td><td>bigint</td><td>Consider Adhock Deposit Flag for Margin. Consider Adhock for Margin= 1
Don’t consider Adhock for Margin= 0</td><td>1</td></tr>
<tr><td>UDFIELD70</td><td>bigint</td><td>Consider Adhock Deposit Flag for MTM Limits.
Consider Adhock for MTM= 1
Don’t consider Adhock for MTM= 0</td><td>0</td></tr>
<tr><td>UDID1:</td><td>bigint</td><td>NA</td><td></td></tr>
<tr><td>UDUSID1</td><td>bigint</td><td>User deposite internal Login ID</td><td>73</td></tr>
<tr><td>UDDepositLevel1</td><td>bigint</td><td>Deposite level to be applied. Based on Deposit Level further records needs to be sent.for e.g. Level is 44 then Exchange, Market & Segement Ids along with values (Not blank) should be sent in request.
<table>
<tr><td></td><td></td></tr>
<tr><td>User→Securitites/Commodities</td><td>11</td></tr>
<tr><td>User→Securitites/Commodities →Exchange</td><td>22</td></tr>
<tr><td>User→Securitites/Commodities →Exchange→Market</td><td>33</td></tr>
<tr><td>User→Securitites/Commodities →Exchange→Market→Segment</td><td>44</td></tr>
<tr><td>User→Securitites/Commodities →Market</td><td>55</td></tr>
<tr><td>User→Securitites/Commodities →Market→Segment</td><td>66</td></tr>
<tr><td>User→Exchange</td><td>77</td></tr>
</table></td><td>11</td></tr>
<tr><td>UDOrderType1</td><td>varchar(5)</td><td>Order Type</td><td>1,2</td></tr>
<tr><td>UDCategory1</td><td>bigint</td><td>Category Type
If UDDepositLevel2 field value=77 then Blank otherwise
Securities=1
Commodities=2</td><td>1</td></tr>
<tr><td>UDExchange1</td><td>bigint</td><td>If UDDepositLevel2 field value = 11 & 55 then Blank
Otherwise
Respective Exchange ID</td><td>For details Refer to Appendix</td></tr>
</table>

			section 1.1
UDMarket1	bigint	If UDDepositLevel2 field value=11,22 &77 then Blank Otherwise Respective Market ID	For details Refer to Appendix section 1.1
UDSEGMENT1	bigint	If UDDepositLevel2 field value=11,22,33,55 & 77 then Blank otherwise respective Segment ID Intraday=1 Delivery=2	Blank
UDDeposit1:	bigint	Effective user deposit to be added Overall User Level. This field is a multiplication of UDAmount10 (Cash Deposit) & UDAmount20 (Multiplier). Adhock Deposit can also added in Cash Deposit.	3000000000
UDROWSTATE1:	bigint	For Addition of Deposit = 1 For deletion of Deposit = 0	1
UDAmount11	bigint	Cash Deposit: - Actual Deposit set or received from backoffice.This should be multiplied by 10,000 while sending the request to OMS.	1000000000
UDAmount21	bigint	Multiplier Multiplier filed should be multipled by 10000. For eg. User sets the multipler 1 then while sending request it should be sent as 10000	30000
UDADHOCMARGIN1	bigint	User deposit Adhoc Margin. This is Adhock Deposit and should be sent by multiplied by 10,000.	0
UDMarkToMarketFactor1	bigint	Mark to market Mltiplier. Don't check MTM Limit = -1 If >0 then multiplier will be considered for MTM Limits. Values should be multiplied by 10,000	-1
UDValidTill1	datetime(8)	Valid date	Blank
UDFIELD51	bigint	Actual MTM limit. This field should be multiplied by UDMarkToMarketFactor(MTMLimit) and UDDeposit0(Actual Deposit)	-1
UDFIELD61	bigint	Consider Adhock Deposit Flag for Margin. Consider Adhock for Margin= 1 Don't consider Adhock for Margin= 0	1
UDFIELD71	bigint	Consider Adhock Deposit Flag for MTM Limits. Consider Adhock for MTM= 1 Don't consider Adhock for MTM= 0	0
UDID2	bigint	NA	
UDUSID2	bigint	User deposite internal Login ID	73
UDDepositLevel2	bigint	Deposite level to be applied. Based on Deposit Level further records needs to be sent.for e.g. Level is 44 then Exchange, Market & Segement Ids along with values (Not blank) should be sent in request.	11

User→Securitites/Commodities	11
User→Securitites/Commodities →Exchange	22
User→Securitites/Commodities →Exchange→Market	33
User→Securitites/Commodities →Exchange→Market→Segment	44
User→Securitites/Commodities →Market	55
User→Securitites/Commodities →Market→Segment	66
User→Exchange	77

UDOrderType2	varchar(5)	Order Type	1,2
UDCategory2	bigint	Category Type If UDDepositLevel2 field value=77 then Blank otherwise Securities=1 Commodities=2	2
UDExchange2	bigint	If UDDepositLevel2 field value = 11 & 55 then Blank Otherwise Respective Exchange ID	For details Refer to Appendix section 1.1
UDMarket2	bigint	If UDDepositLevel2 field value=11,22 &77 then Blank Otherwise Respective Market ID	For details Refer to Appendix section 1.1
UDSEGMENT2	bigint	If UDDepositLevel2 field value=11,22,33,55 & 77 then Blank otherwise respective Segment ID Intraday=1 Delivery=2	Blank
UDDeposit2	bigint	Effective user deposit to be added Overall User Level. This field is a multiplication of UDAmount10 (Cash Deposit) & UDAmount20 (Multiplier). Adhock Deposit can also added in Cash Deposit.	4000000000
UDROWSTATE2	bigint	For Addition of Deposit = 1 For deletion of Deposit = 0	1
UDAmount12	bigint	Cash Deposit: - Actual Deposit set or received from backoffice.This should be multiplied by 10,000 while sending the request to OMS.	1000000000
UDAmount22	bigint	Multiplier Multiplier filed should be multipled by 10000. For eg. User sets the multipler 1 then while sending request it should be sent as 10000	40000
UDADHOCMARGIN2	bigint	User deposit Adhoc Margin. This is Adhock Deposit and should be sent by multiplied by 10,000.	0

UDMarkToMarket Factor2	bigint	Mark to market Mltiplier. Don't check MTM Limit = -1 If >0 then multiplier will be considered for MTM Limits. Values should be multiplied by 10,000	-1
UDValidTill2	datetime(8)	Valid date	Blank
UDFIELD52	bigint	Actual MTM limit. This field should be multiplied by UDMarkToMarketFactor(MTMLimit) and UDDeposit0(Actual Deposit)	-1
UDFIELD62	bigint	Consider Adhock Deposit Flag for Margin. Consider Adhock for Margin= 1 Don't consider Adhock for Margin= 0	1
UDFIELD72	bigint	Consider Adhock Deposit Flag for MTM Limits. Consider Adhock for MTM= 1 Don't consider Adhock for MTM= 0	0
rowcount	bigint	Total number of deposite record	3
USLOGINID	varchar(30)	The user ID/client ID for whom deposit to be added.	Client1-T9072
USBackOfficeId	varchar(30)	The user ID/client ID for whom deposit to be added.	Client1-T9072
SessionKey	varchar(62)	Unique key for identify user session.	140878928 3-02275218
Thick Client	char(1)	Thick client	Y

1.1.203 Modify User Deposite Reply

Message Name	**EditUserDeposit**
Type of Message	HTTP Response
Description	This is the reply message sent in response to retrieve **Modify deposit for clients.** The reply message contains the status of the transaction after it was processed (i.e. **success or failure**).

Response	**Minimum Number of Records**	**6**	**HTTP Response**	
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1:Field1	Status of Request	int	Successful=0 Failed=1	0
Record1:Field2	Error Details message	varchar	Error or Successfully message Internal Rejection details if failed (Field1 = 1)	Succesfully Updated

CHARTS

1.1.204 Charting Data Request- HTTP

Message Name	DataForFinChart
Type of Message	HTTP Request
Description	This request message is sent by the TPS to BOW terminal when the user wants to **see tick by tick data of particular script or index.**

Field Name	Type	Description	Values, meanings, Validations
Token	bigint	Combination of token number of the Contract, Exchange & Market. Token no^Exchange^Market	For Index: S&P BSE SENSEX^1^0 For Symbol 244^1^1
ChartType	varchar(30)	IntraDay=I Historical=H(Available only for BSE markets)	I
MaxID	bigint	Max ID	0
Symbol	varchar(30)	Unique symbol / Asset Code defined for each asset. For Index= Index Symbol= First character of symbol.	A for ACC /INDEX
Filler	Filler	Filler	Blank
Filler	Filler	Filler	Blank
SessionKey	varchar(62)	Unique key for identify user session	268144845-02162105
Thick Client	char(1)	Thick Client	Y

1.1.205 Charting Data Reply- HTTP

Message Name	DataForFinChart
Type of Message	HTTP Response
Description	This is the reply message sent in response to see **chart data** request. The reply message contains the **tick by tick data of particular script or index** and the status of the transaction after it was processed (i.e. success or failure).

Response	Minimum Number of Records		HTTP Response	
Sr.No.	**Field Name**	**Type**	**Description**	**Values, meanings, Validations**
Record1 (Ignore this record)	Chart header & data	varchar	Chart headers & data	SBQCreatedAt|SBQLastTradePrice|SBQVolumeTradedToday
Record2	Number of records	bigint	Total no of Records	48
Record3	Chart Data	varchar	Chart Data	3|5^1^1|07/05/2019 13:57:17|1779|1900.20

Detail Description of Record1: Chart headers & data

Filed No	Field Name	Type	Description	Values, meanings, Validations
Filed1	ID	bigint	Time Interval	3
Field2	INTRATOKEN	varchar	For Index: Combination of Index^Exchange ID^Market For Symbol Symbol token^Exchange ID^Market	5^1^1 OR S&P BSE METAL^1^0
Filed3	INTRADATE	datetime(8)	Created date and time	25/04/2019 10:58:03
Filed4	INTRAVOLUME	bigint	Intra Volume	1779 Blank for INDEX
Filed5	INTRALTP	varchar	Intra LTP	1900.20

APPENDIX

1.1.206 List of Exchange, Market and Segment

Field Name	Values, Meanings, Validations
Exchange Name with ID	All= 0 BSE= 1 NSE= 2 NCDEX= 3 MCX= 5
Market Name with ID	ALL =0 EQUITY= 1 DERIVATIVE= 2 COMMODITIES= 3 CURRENCY= 4 MUTUALFUND= 5 SLB= 6 OFS= 7 DEBT= 8 REPO = 9 ITP= 10
Segment Name with ID	ALL=0 Equity = 1 Equity & Currency Derivative Futures Intraday = 2 Equity & Currency Derivative Options Intraday = 3 Commodity Futures Intraday = 5 Commodity Options Intraday = 6 Equity & Currency Derivative Futures CNC = 10 Equity & Currency Derivative Options CNC = 11 Commodity Futures CNC = 13 Commodity Options CNC = 14

1.1.207 For Responses Data Separation Details

Types Of Seperator	Symbol
Record Separator	~
Column Separator	|
Security Key Separator	^
Response	|
TCP Request	|

Detail Description of Column Types Field for Responses Table

Character Number(For Column types)	Character Description
1st Character – Visibility	Hidden= H Visible= S
2nd Character – Alignment	Left Aligned= L Right Aligned= R
3rd Character - Data Type	Integer & Double= N Date, DateTime, Time= D Character & Varchar= A
4th Character - Exchange specific indicator	All =0 BSE = 1 NSE = 2 NCDEX = 3 MCX = 5

Change Log

1.1.208 Details of changes in API

No	Section	Description	Release Date
1	BOW API version	Base Version of BOW API V1.0.0	16th Nov 2018

No	Section	Description	Release Date
1	BOW API version	Base Version of BOW API V1.0.1	07th May 2019
3	Login in BOW	User Login Status	
3	Order and Trade	Multileg Orders	
4	Order and Trade	Connect message for Order gateway	
5	Broadcast Related messages	Connect status message for Broadcast	
6	Broadcast Related messages	Connect message for Broadcast	
7	Admin Section	User Deposit for clients	
8	Charts	Charting Data	
9	Security / Contract information	List User Stocks Position	

No	Section	Description	Release Date
1	BOW API version	Base Version of BOW API V1.0.2	24th June 2019
2	Login in BOW	Member is active or not for Interoperability functionality	
3	BroadCast Related Message	Add Indices HTTP & TCP	
4	Query and Reports	Changes for Interoperability functionality in Net Position(Consolidated view)	
5	Query and Reports	Preferred exchange against market	

No	Section	Description	Release Date
1	BOW API version	Base Version of BOW API V1.0.3	30th July 2019
2	Login in BOW	User Login Request	
3	Password Management	Forgot Password Reply	
3	Password Management	Two Factor Authentication OTP Request	
4	Query Reports	Activity Log Reply	

No	Section	Description	Release Date
1	BOW API VERSION	Base Version of BOW API V1.0.4	13th Feb 2020
2	Login in BOW	User Logout Request	
3	Login In BOW	Changes in LoginServlet response	
4	BroadCast Related Message	Set Default Market Watch	
5	Query Reports	Exchange/Market staus request	
6	Order and Trade	Parameter related changes in AddOrder-HTTP	
7	Order and Trade	Parameter related changes in AddOrder-TCP	
8	Order and Trade	Order List request	
9	Order and Trade	Trade List request	
10	Query Reports	Activity Log request	
11	Query Reports	List NetPosition Request	
12	Broadcast Related Messages	Market Statistics Request	
13	Broadcast Related Messages	Market Movement Request	
14	Broadcast Related Messages	Most Active by Volume Request	
15	Broadcast Related Messages	Most Active by Value Request	
16	Broadcast Related Messages	Top Gainer Request	
17	Broadcast Related Messages	Top Loser Request	
18	Broadcast Related Messages	52 Week High-Low Request	
19	Scrip/Contract Master Schema Format	Database Table changes	
20	Scrip/Contract Master Schema Format	NSE Commodity Contract Schema Format	