



iTraxx Swaptions Restructuring

ICE Clear Credit

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An option with underlying index undergoing a restructuring event delivers a combination of Single Name and cash payment, contingent on triggering outcomes of the associated Single Name

The restructured index-derived Single Name (SN) notional amount, N_{RS} , can be expressed

$$N_{\rm RS} = \widetilde{\omega}_{\rm SN} \times \widehat{N}_{\rm OP} \times I_{\rm P/R}$$
,

where $\widetilde{\omega}_{SN}$ is the index weight of the restructured constituent, \widehat{N}_{OP} is the signed option notional amount exercised or assigned, and $I_{P/R}$ is +1 for a payer and -1 for a receiver

- Generally, an exercised/assigned option may deliver 2 components associated with a restructured name
 - (a) SN physical position with notional amount

$$N_{\rm RS} \times \omega_{\rm UT}$$

(b) Auction cash payment

$$[N_{\rm RS} \times \omega_{\rm BT} \times (1 - P_{\rm BT})] + [N_{\rm RS} \times \omega_{\rm ST} \times (1 - P_{\rm ST})]$$

where ω_{UT} , ω_{BT} and ω_{ST} are weights for SN, buyer-triggered cash and seller-triggered cash components, respectively, and $\omega_{UT} + \omega_{BT} + \omega_{ST} = 1$.

Weights are determined based on observed triggered/untriggered notional amounts associated with the SN restructuring event, in general¹, according to

$$\omega_j = \frac{N_j}{N_{\rm UT} + N_{\rm BT} + N_{\rm ST}} \,,$$

where $j = \text{UT, BT, ST, } N_{\text{BT}}$ is the buyer-triggered notional amount², N_{ST} is the seller-triggered notional amount², and N_{UT} is the untriggered notional amount

In the interests of simplicity, when $N_{\rm UT}$ is below a predefined threshold of 20% of $N_{\rm UT} + N_{\rm BT} + N_{\rm ST}$, then $N_{\rm UT}$ is considered zero for determining the weights and the option delivers only the auction cash payment component (b) above.

¹ If expiry date falls within the triggering or movement periods then $\omega_{UT} = \frac{N_{\mathrm{UT}}^{\mathrm{E}}}{N_{\mathrm{UT}}^{\mathrm{E}} + N_{\mathrm{ST}}^{\mathrm{E}}}$, where superscript E denotes the last available triggering outcomes at expiry, and $\omega_{j} = (1 - \omega_{UT}) \frac{N_{j}}{N_{\mathrm{BT}} + N_{\mathrm{ST}}}$, where $j = \mathrm{BT}$, ST, and notional amounts without superscripts denote triggering outcomes after triggering and movement periods are complete.

The 2016 Norske event can be used to illustrate the behavior of ICC cleared options related to restructuring

