SPAN Overview

The **Standard Portfolio Analysis of Risk (SPAN)** system is a sophisticated methodology that calculates performance bond requirements by analyzing the "what-ifs" of virtually any market scenario. Continually enhanced and elaborated, the SPAN methodology can be used to evaluate risk for the broadest possible range of derivative and physical instruments. Although originally designed for use with derivatives, its extraordinary capabilities have led to its extensive use in assessing risk for many different types of financial instruments.

Now in its fourth generation of functionality, SPAN has evolved into a suite of three software products designed to meet the needs of a wide range of customers:

- PC-SPAN - A single-user desktop application that offers margin calculation across multiple exchanges.
- SPAN Risk Manager - PC-SPAN *plus* risk analytics.
- SPAN Risk Manager Clearing - SPAN Risk Manager plus real-time margining, plus risk array calculations and production of SPAN risk parameter files.

Contents

- System Requirements
- Quick Installation
- Quick Tour
- Use PC-SPAN
    - User Tips
    - Calculating Performance Bond Requirements
    - Defining Portfolios
    - Defining Positions
    - Loading SPAN Risk Parameter Files
    - PC-SPAN Reports
- PC-SPAN Interfaces and Utilities
    - Component Interface for Version 4 of PC-SPAN, SPAN Risk Manager, and SPAN Risk Manager Clearing
    - Option Pricing Models Interfaces and Methods
    - Running PC-SPAN Reports and Export Datafiles in Batch
    - Script Language for PC-SPAN v.4.05 and SPAN Risk Manager
    - Using PC-SPAN version 4.02 for TRAKRS
- Layout Guides
    - Additional XML formats recognized by PC-SPAN
    - Standard Portfolio Data File Layout
    - Expanded Portfolio Data File Layout
    - Daily Adjustment History Files
    - Paris Expanded SPAN File Format for MATIF and Monep Products
    - Risk Parameter File Layouts for the Positional Formats
        - Currency Codes Recognized
        - Expanded
            - Type 1 Records - Expanded and Paris
            - Type 2 - Expanded
            - Type 2 - Paris Expanded
            - Type 3 - Expanded
            - Type 3 - Paris Expanded
            - Type 4 - Expanded
            - Type 4 - Paris Expanded
            - Type 5 - Expanded
            - Type 5 - Paris Expanded
            - Type 6 - Expanded
            - Type 6 - Paris Expanded
            - Type 8 - Expanded
            - Type 8 - Paris Expanded
            - Type 9 - Expanded
            - Type 9 - Paris Expanded
            - Type B - Expanded
            - Type B - Paris Expanded
            - Type C - Expanded Format and Paris Expanded
            - Type P - Paris Expanded
            - Type P Record - Standard and Expanded
            - Type R - Expanded
            - Type S - Expanded Format and Paris Expanded
            - Type T - Paris Expanded
            - Type T Record - Standard and Expanded
            - Type V - Expanded
        - Standard
            - Type 0 Records - Standard
            - Type 1 Records - Standard
            - Type 2 Record - Standard
            - Type 3 Record - Standard
            - Type 4 Record - Standard
            - Type 5 Record - Standard
            - Type 6 Record - Standard
            - Type 8 Records - Standard
            - Type 9 Records - Standard

        - Type B Record - Standard
        - Type C Record - Standard
        - Type E Record - Standard
        - Type R Record - Standard
        - Type S Record - Standard
        - Type V Record - Standard
        - Type X Record - Standard and Expanded
        - Type Y Record - Standard and Expanded
        - Type Z Record - Standard and Expanded
    - XML-based Position File
    - XML-based Risk Parameter File
- Portfolio Reports
    - Intercommodity Spreading Tier Requirements Report
    - Intracommodity Spreading Tier Requirements Report
    - PB Requirement Listing
    - PB Requirements Report
    - PB Requirements Summary
    - Period Deltas Report
    - Positions Report
    - Scanning Tier Requirements Report
    - Scan Risk Contributions Report
    - Short Option Minimum Tier Requirements Report
    - Spreads Detail Report
- SPAN Risk Manager
    - SPAN Risk Manager Functions
    - SPAN Risk Manager - Option Pricing Models
    - Main Exposure
    - Multicommodity Analysis
- Risk Parameters Reports
    - Combined Commodities
    - Contracts
    - Exchange Rates
    - Inter Exchange Spreads
    - Inter Spreads
    - Inter Tiers
    - Intra Spreads
    - Intra Tiers
    - Products
    - Products by Combined Commodity
    - Rate IDs
    - Risk Arrays
    - Risk Arrays - Standard
    - Risk Scenarios
    - Scan Rate Tiers
    - Scan Tiers
    - SOM Tiers
    - Spot Periods
- PC-SPAN 4.5 Historical Build Notes