

# T7 Cloud Simulation

On-demand access simulation

2025

# Agenda



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# 1 Overview T7 Simulation Environments

# Overview T7 Simulation Environments

## T7 Eurex Exchange

### T7 Cloud Simulation

- ISVs, Trading participants & others based on
  - T7 Cloud Agreement
  - Sandbox environment
  - No connection to other systems like C7
  - 24/7 availability
  - Hourly billing

### T7 Standard Simulation

- Trading participants & Clearing Members access for free
- ISVs and Members join via Vendor Access contract
- Near time copy of production environment
- Clients & ISVs sharing same order book
- Simulation calendar with scheduled trading hours

### T7 Production

- Major T7 system connected to all admitted Trading participants & Clearing Members
- 23 trading hours - follow the sun principal

# 2 T7 Simulation Schedules

# T7 Simulation Schedules

## T7 Simulation Environment Schedules

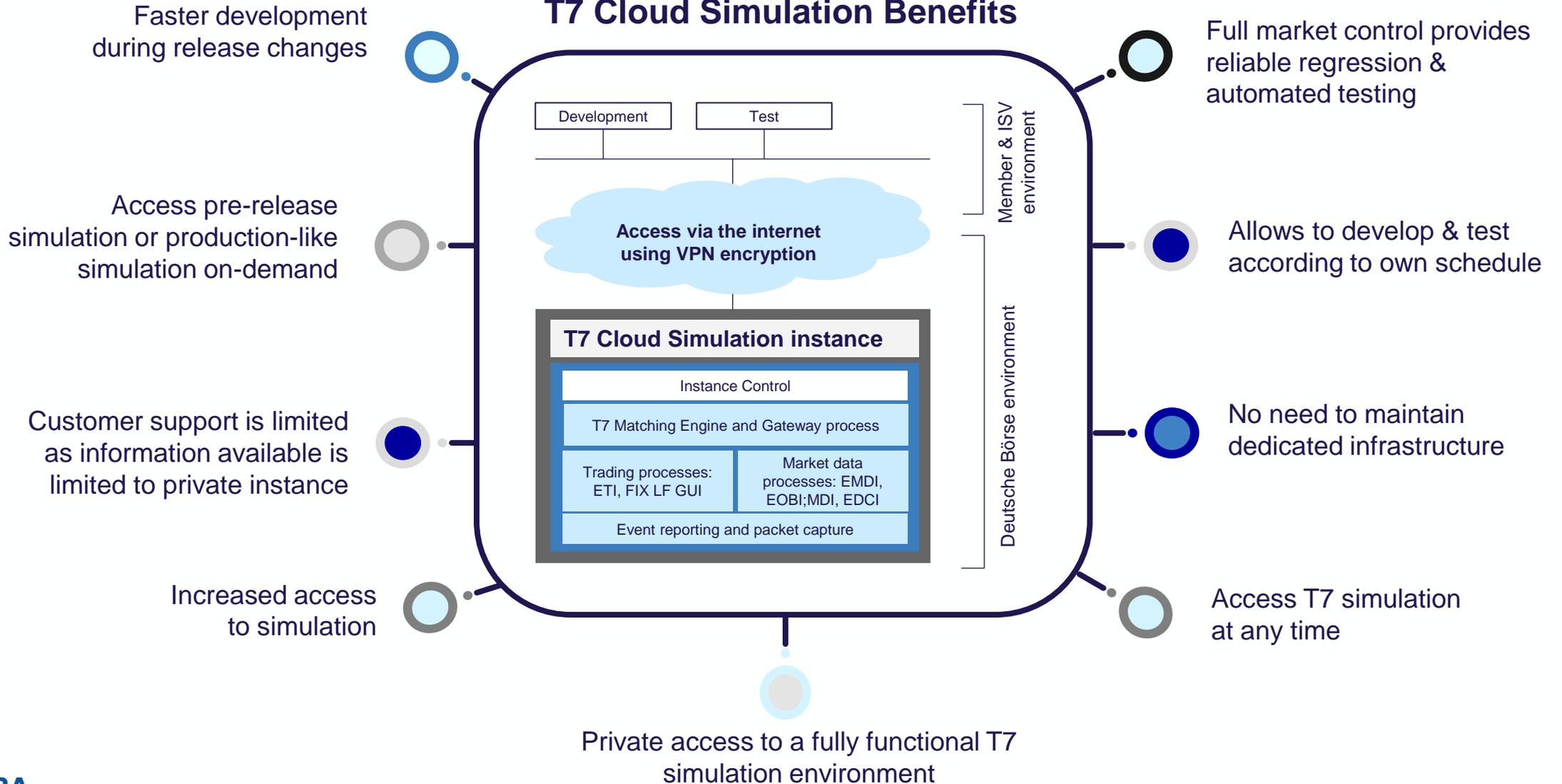


# 3 T7 Cloud in a nutshell



# T7 Cloud Simulation Service Offering in a nutshell

## T7 Cloud Simulation Benefits



Faster development during release changes

Full market control provides reliable regression & automated testing

Access pre-release simulation or production-like simulation on-demand

Allows to develop & test according to own schedule

Customer support is limited as information available is limited to private instance

No need to maintain dedicated infrastructure

Increased access to simulation

Access T7 simulation at any time

# 4 T7 Cloud features

# Deep dive T7 Cloud Simulation Features (1/3)

Customers can deploy **private, on-demand** instance of T7 simulation for testing & development

Instance is created & runs within **public cloud infrastructure** allowing customers access from any computer with internet **access anywhere**

**Consumption-based** billing model offers easy access to commitment-free environment for developing & testing trading software

Trading & Admin GUI available

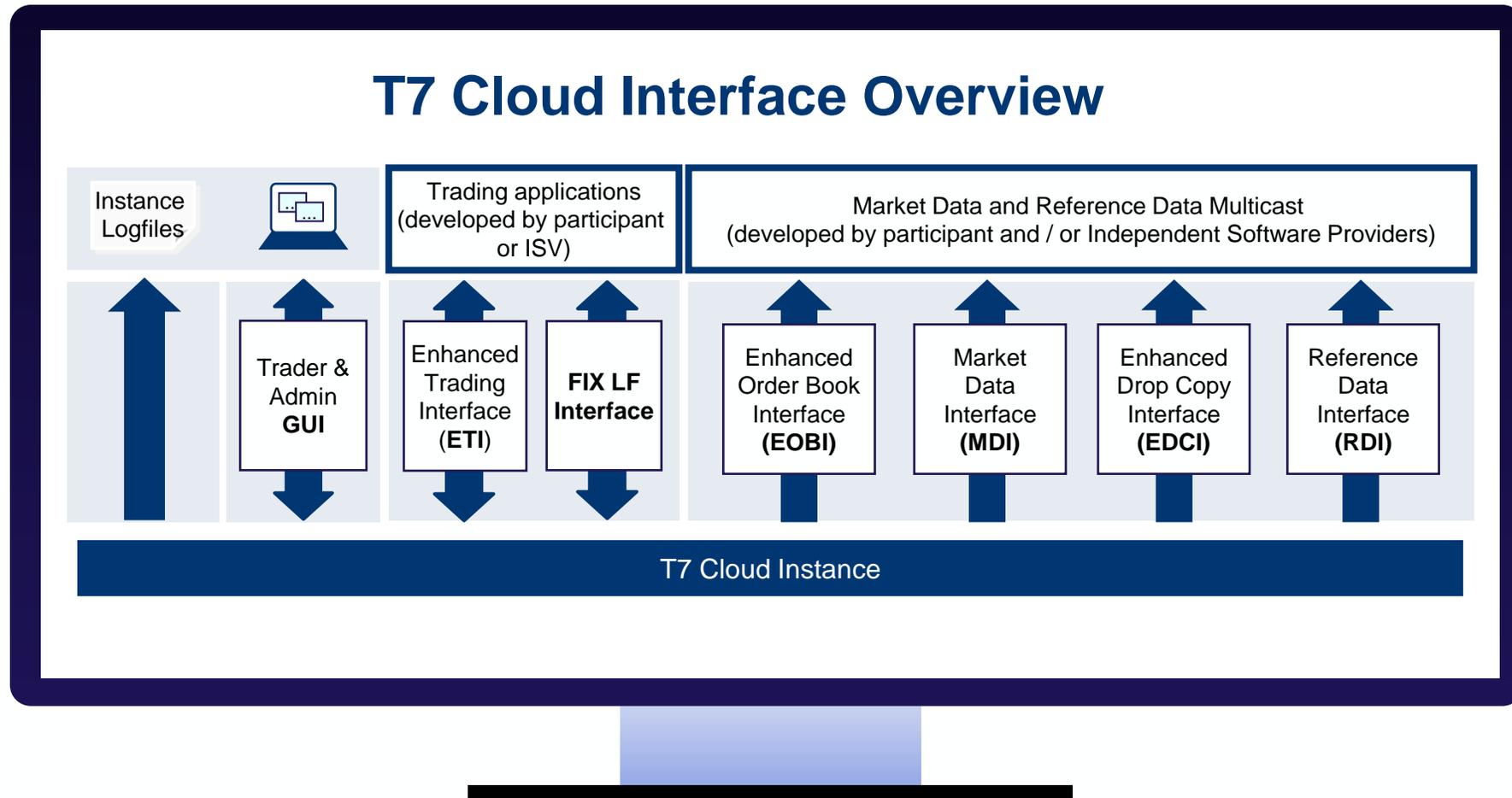


Upcoming T7 software version can be tested **1 month prior** to its deployment in regular T7 Simulation

Participants can choose from **2 different simulation environments & reference data**, for both versions participants can opt for **production like reference or test data**

Eurex - XEUR	
<input type="radio"/>	<b>Eurex 13.0 (production reference data)</b> Production version (published 2025-02-07)
<input type="radio"/>	<b>Eurex 13.0 (simulation reference data)</b> Production version (published 2025-02-07)
<input type="radio"/>	<b>Eurex 13.1 (simulation reference data)</b> Pre-Simulation version (published 2025-02-28)
Xetra - XETR	
<input type="radio"/>	<b>Xetra 13.0 (production reference data)</b> Development version (published 2025-02-07)
<input type="radio"/>	<b>Xetra 13.0 (simulation reference data)</b> Development version (published 2025-02-07)
<input type="radio"/>	<b>Xetra 13.1 (simulation reference data)</b> Pre-Simulation version (published 2025-02-28)
Boerse Frankfurt - XFRA	
<input type="radio"/>	<b>Boerse Frankfurt 13.0 (test reference data)</b> Development version (published 2025-02-07)
<input type="radio"/>	<b>Boerse Frankfurt 13.1 (test reference data)</b> Pre-Simulation version (published 2025-02-28)

# Deep dive T7 Cloud Simulation Features (2/3)



Access includes 5 unique member IDs, each enabled with

- 5 trader IDs (one supervising trader, one head trader and two regular traders)
- High- & low-frequency ETI sessions, FIX LF session & GUI access

# Deep dive T7 Cloud Simulation Features (3/3)

Mass Cancellation, Stop Trading, Emergency Stop, Instrument suspension, initiate volatility interruption via the API or web interface

Perform Failovers and failures of interfaces or the whole system

Possibility to perform Trade Enrichment Maintenance, Entitlement Maintenance, Transaction size limit maintenance via the Admin GUI

Data from an instance can be saved by downloading raw PCAP files for an instance (either via T7 Cloud API or Launchpad)

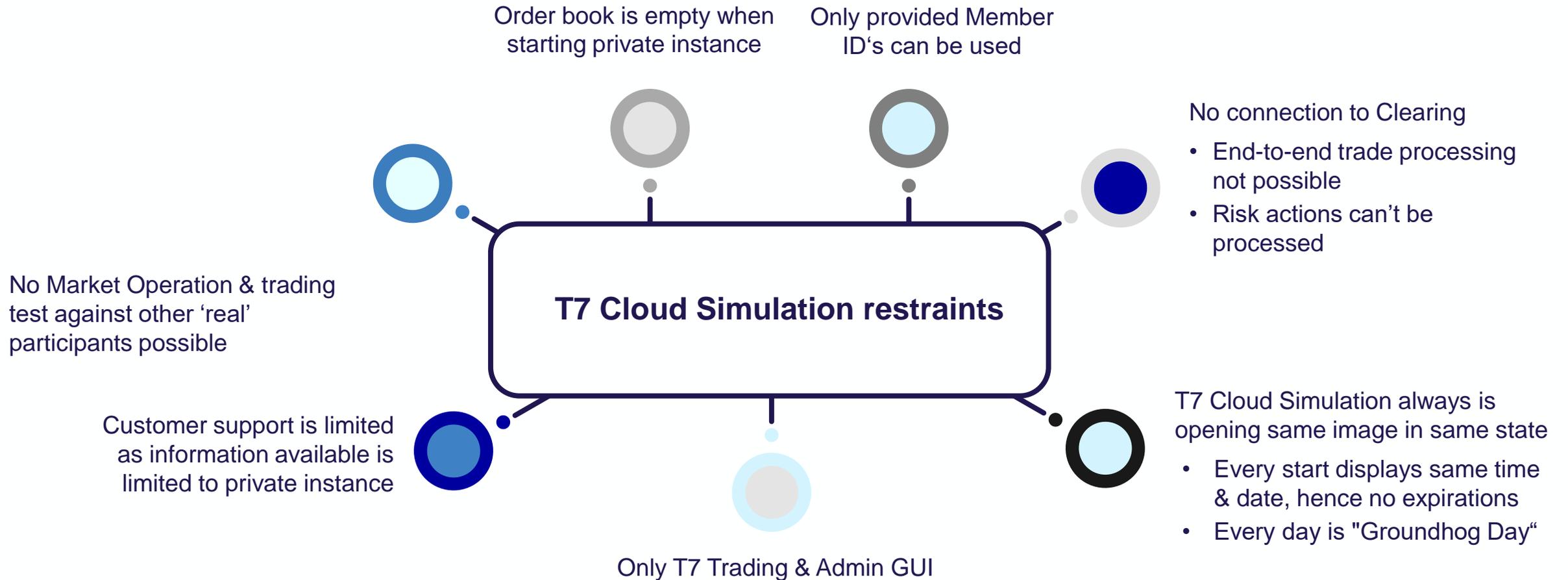
The screenshot shows the 'Process Management' section for instance 'sleepy-purple-liger'. It features a table of 'Instance Processes' with columns for NAME, STATUS, and TRIGGERS. The table lists several processes like 'Low Frequency Gateways', 'RDI', 'Trade Manager', 'FIXLF Gateway', 'GMC', 'Core Processes', and 'Exchange Services'. Each process has 'Failover' and 'Stop' buttons. A 'Restart' button is also present for 'Exchange Services'. The left sidebar contains navigation options like Dashboard, New Instance, Trade Enrichment Rules, API Patch Notes, Usage, Instance Details, Mass Cancellation, Order Book Scenarios, Trade Reversal, Process Management, and Logs.

The screenshot shows the 'Mass Cancellation' page for instance 'sleepy-purple-liger'. It includes a 'Reason' dropdown menu set to 'Stop Trading' and an 'Execute' button. Below this, there are sections for 'Ownership' (with radio buttons for Single User, Session, and Business Unit), 'Users-Sessions' (with dropdowns for Member, Session, and User), and 'Product' (with radio buttons for All Products and Single Product). A description explains that this function is normally triggered via the T7 GUI and deletes all orders, quotes, or both, depending on the selected ownership context.

The screenshot shows the 'Logs' page for instance 'sleepy-purple-liger'. It features a 'Log file' dropdown menu set to 'PacketCapture.log' and a 'Lines to retrieve' input field set to '50'. Below these are buttons for 'Show Logs', 'Download', and 'Download All Activity'. The left sidebar contains navigation options like Dashboard, New Instance, Trade Enrichment Rules, API Patch Notes, Usage, Instance Details, Product Management, Pre-Trade Risk Limits, Scenarios, Mass Cancellation, Order Book Scenarios, Trade Reversal, Process Management, and Logs.

# 5 Limitations

# Known Limitations



# 6 Outlook

# Outlook



**T7 Cloud Simulation is highly customizable**



## **Possible developments**

- Sophisticated automated trade-generation scripts
- Intraday product expirations
- Addition reporting and audit trail functionality in the event of updated regulatory requirements
- Historical order book data subscriptions and scenarios



**T7 Cloud migration to Google Cloud Platform (GCP) plans for end of 2025**

**Let us know, what  
you'd like to see in  
the T7 Cloud  
Simulation!**

# Thank you!

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XETRA

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