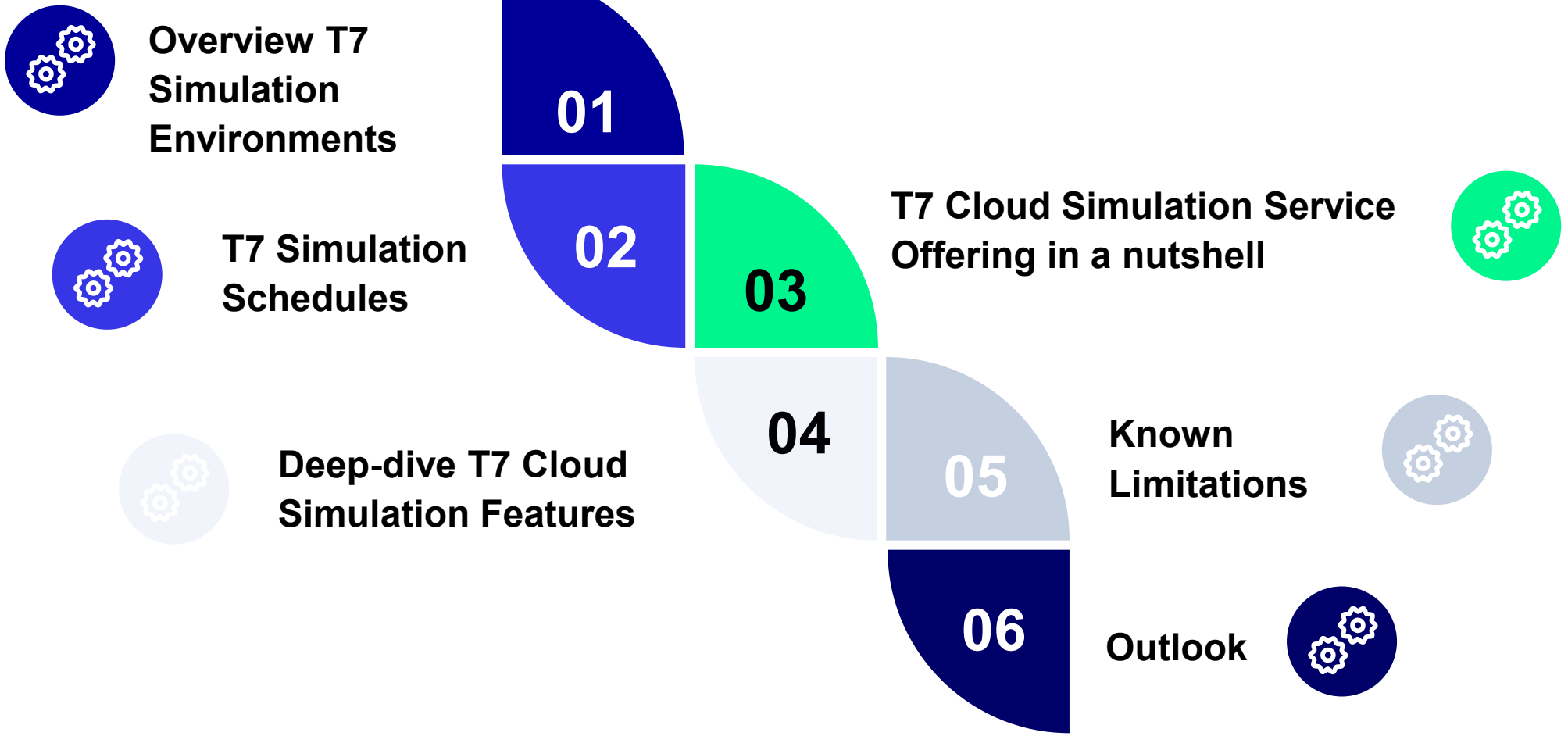


T7 Cloud Simulation

On-demand access simulation

2025

Agenda


01
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02
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03
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1 Overview T7 Simulation Environments



Overview T7 Simulation Environments



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

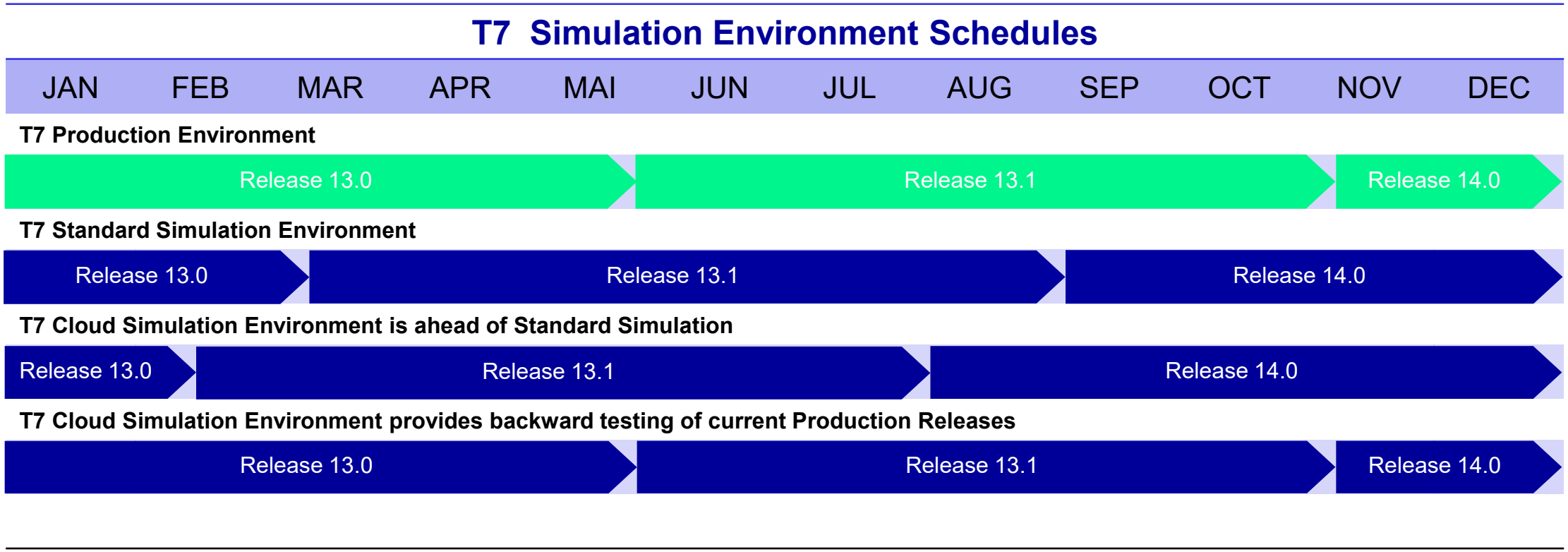
T7 Production

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

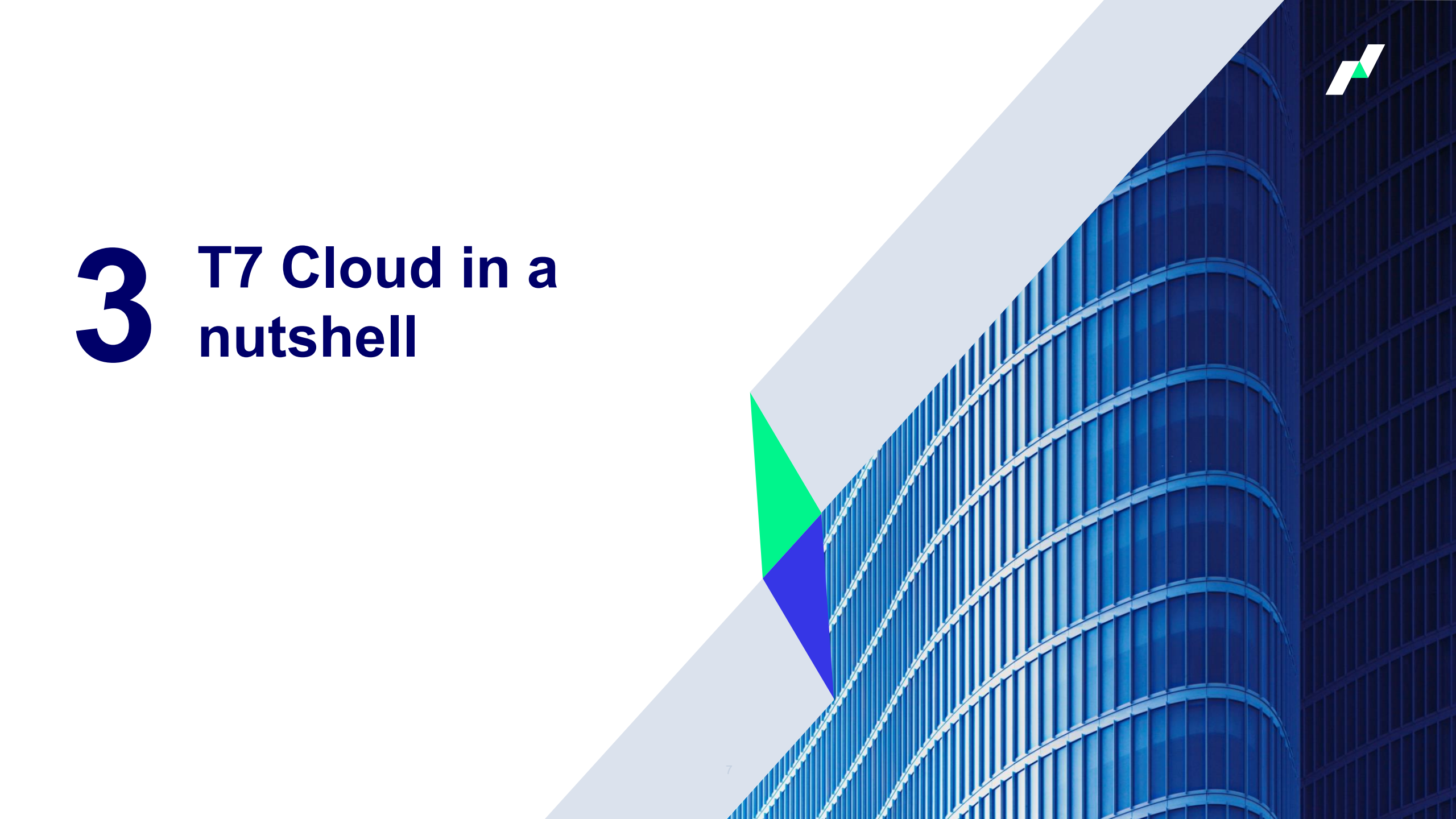
2 T7 Simulation Schedules



T7 Simulation Schedules



3 T7 Cloud in a nutshell



T7 Cloud Simulation Service Offering in a nutshell

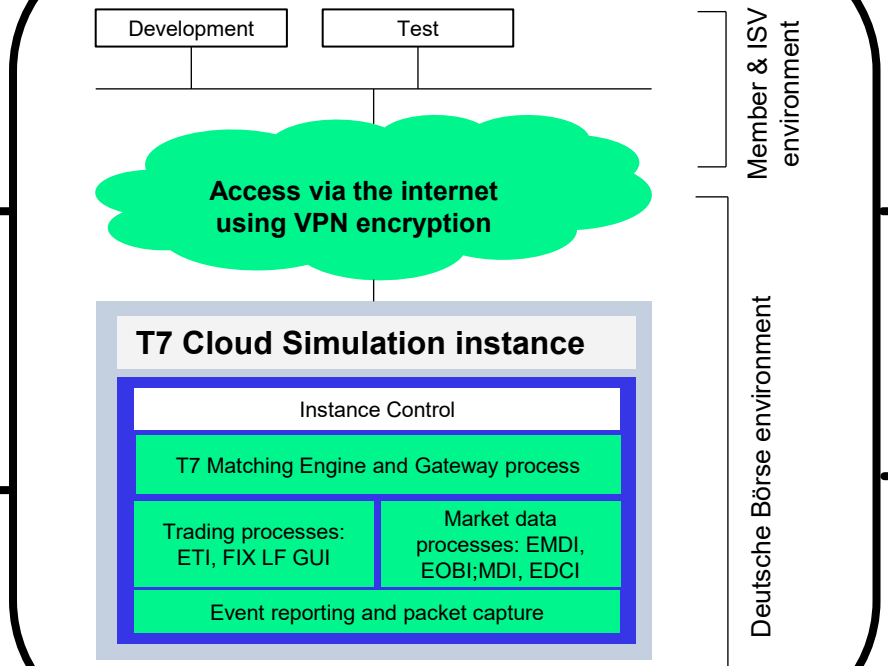
T7 Cloud Simulation Benefits

Faster development during release changes

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

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

Increased access to simulation



Full market control provides reliable regression & automated testing

Allows to develop & test according to own schedule

No need to maintain dedicated infrastructure

Access T7 simulation at any time

Private access to a fully functional T7 simulation environment

4 T7 Cloud features



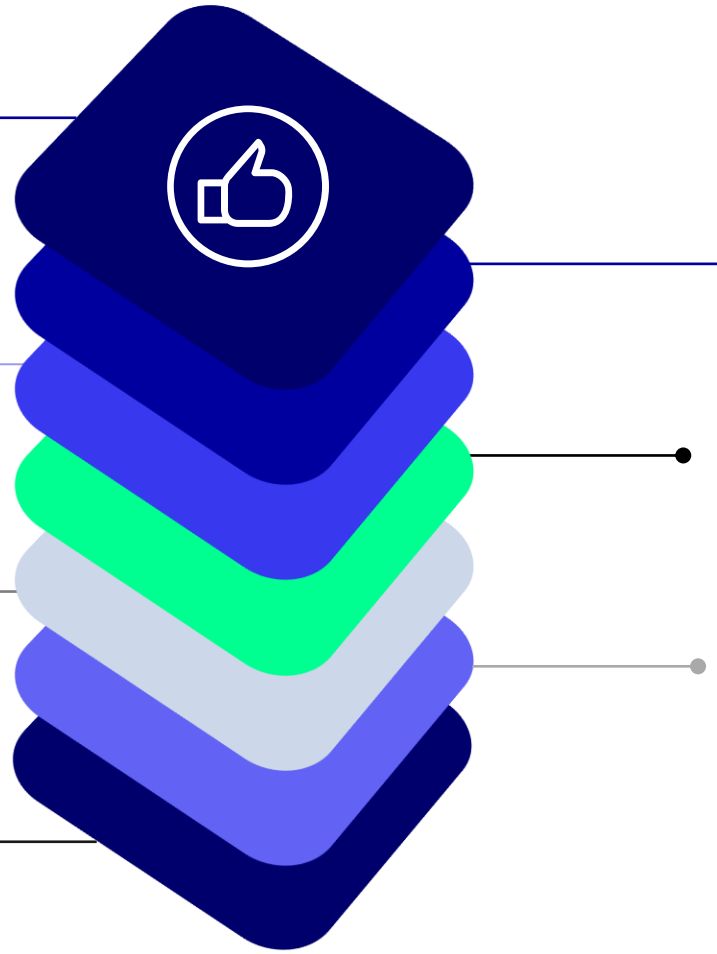
Deep dive T7 Cloud Simulation Features (1/3)

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

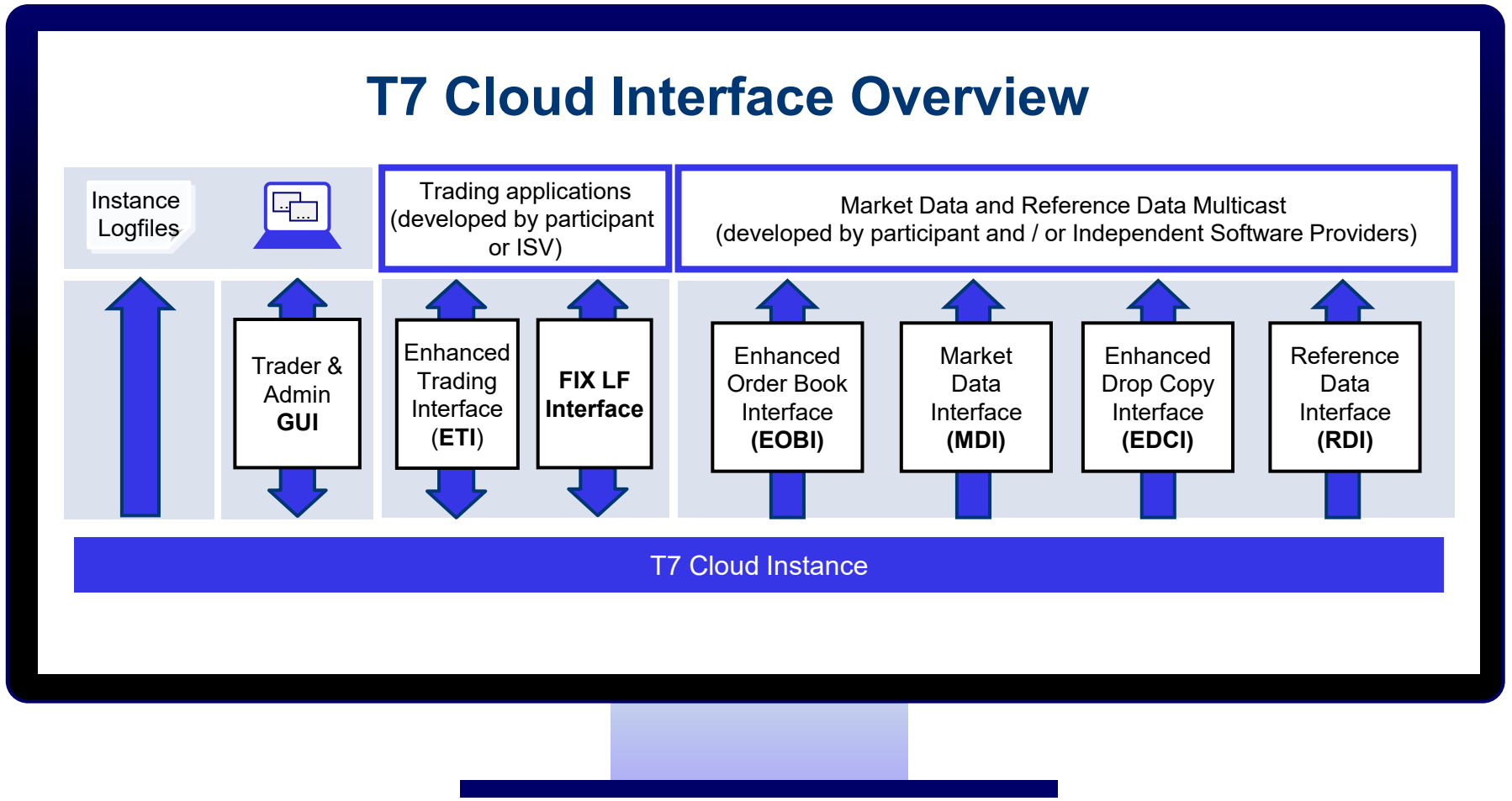


Upcoming T7 software version can be tested **1 month prior** to its deployment in regular T7 Simulation

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



Deep dive T7 Cloud Simulation Features (2/3)



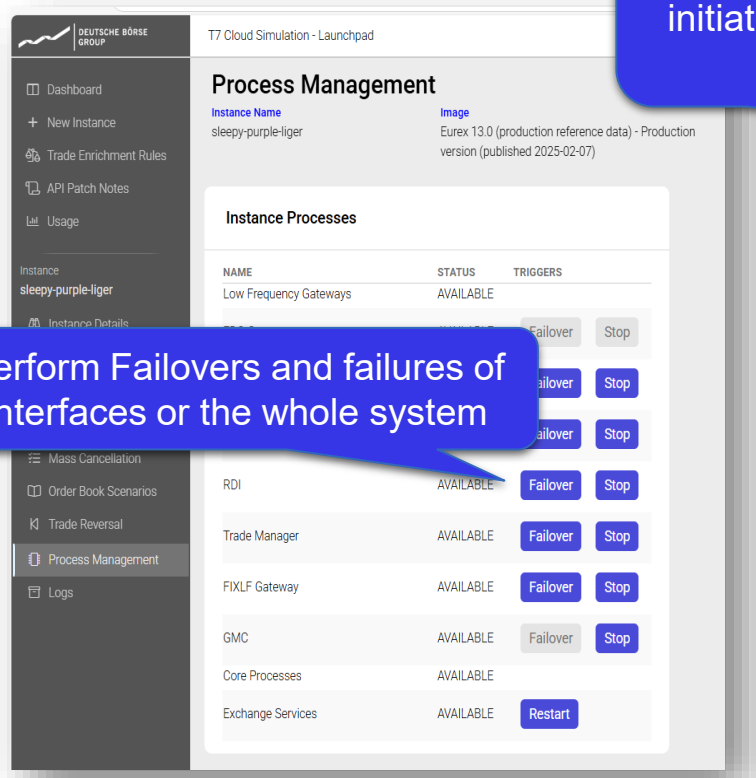
Access includes 5 unique member IDs, each enabled with

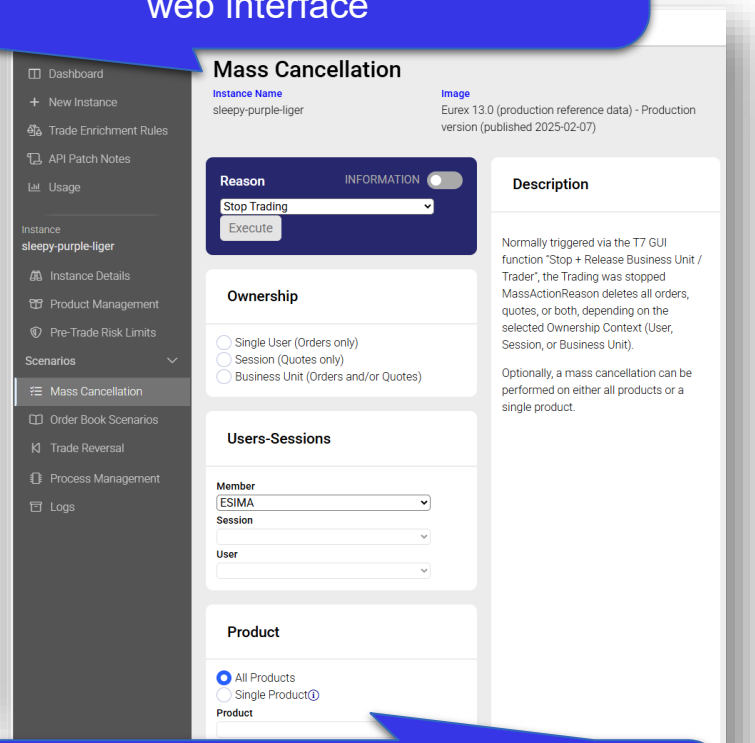
- 5 trader IDs (one supervising trader, one head trader and two regular traders)
- High- & low-frequency ETI sessions, FIX LF session & GUI access

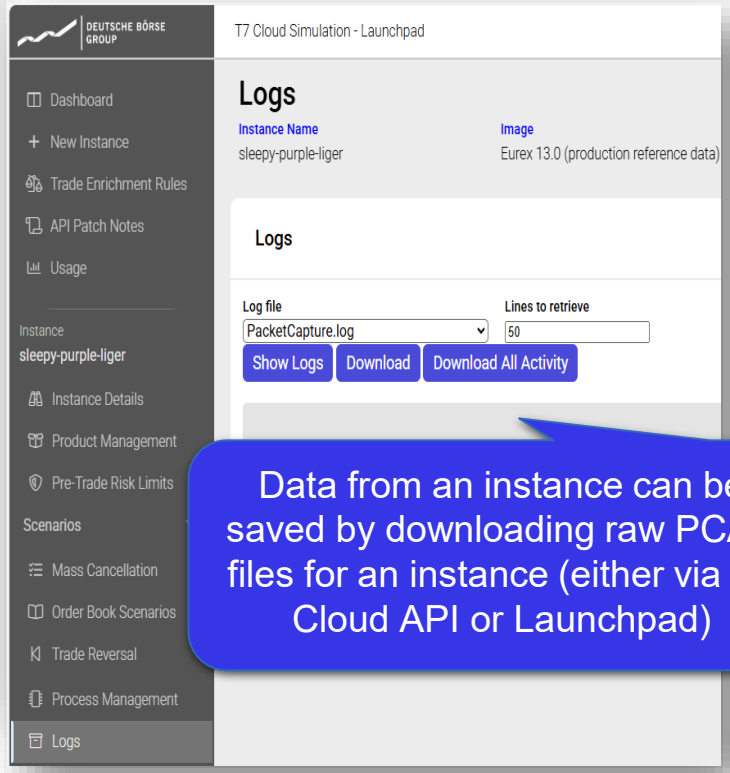
Deep dive T7 Cloud Simulation Features (3/3)

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







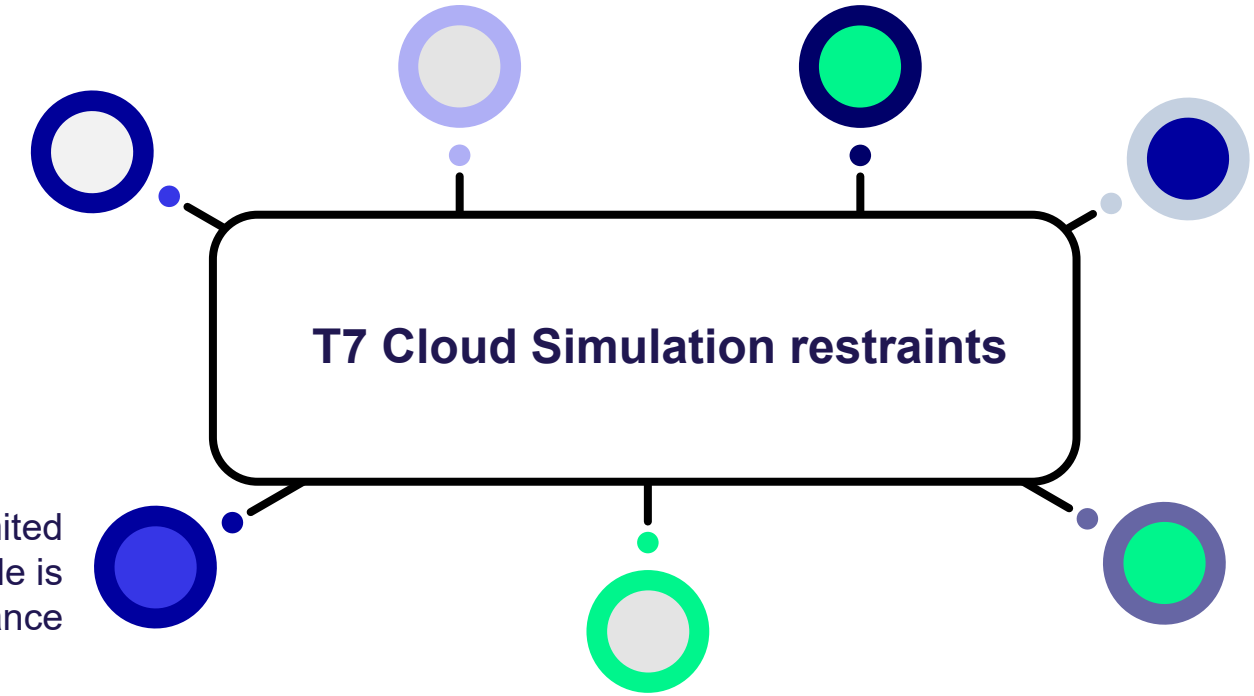
Possibility to perform Trade Enrichment Maintenance, Entitlement Maintenance, Transaction size limit maintenance via the Admin GUI

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

5 Limitations



Known Limitations



Order book is empty when starting private instance

Only provided Member ID‘s can be used

No connection to Clearing

- End-to-end trade processing not possible
- Risk actions can’t be processed

No Market Operation & trading test against other ‘real’ participants possible

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

T7 Cloud Simulation always is opening same image in same state

- Every start displays same time & date, hence no expirations
- Every day is "Groundhog Day“

Only T7 Trading & Admin GUI

6 Outlook



Outlook

T7 Cloud Simulation is highly customizable

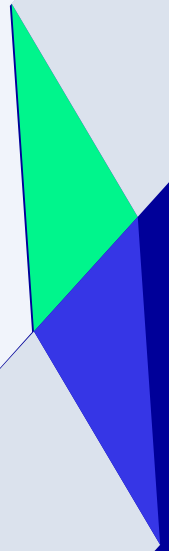
Possible developments

- 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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If you have any further questions, please contact your Key Account Manager or send an e-mail to vendors@deutsche-boerse.com

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