MscViewer

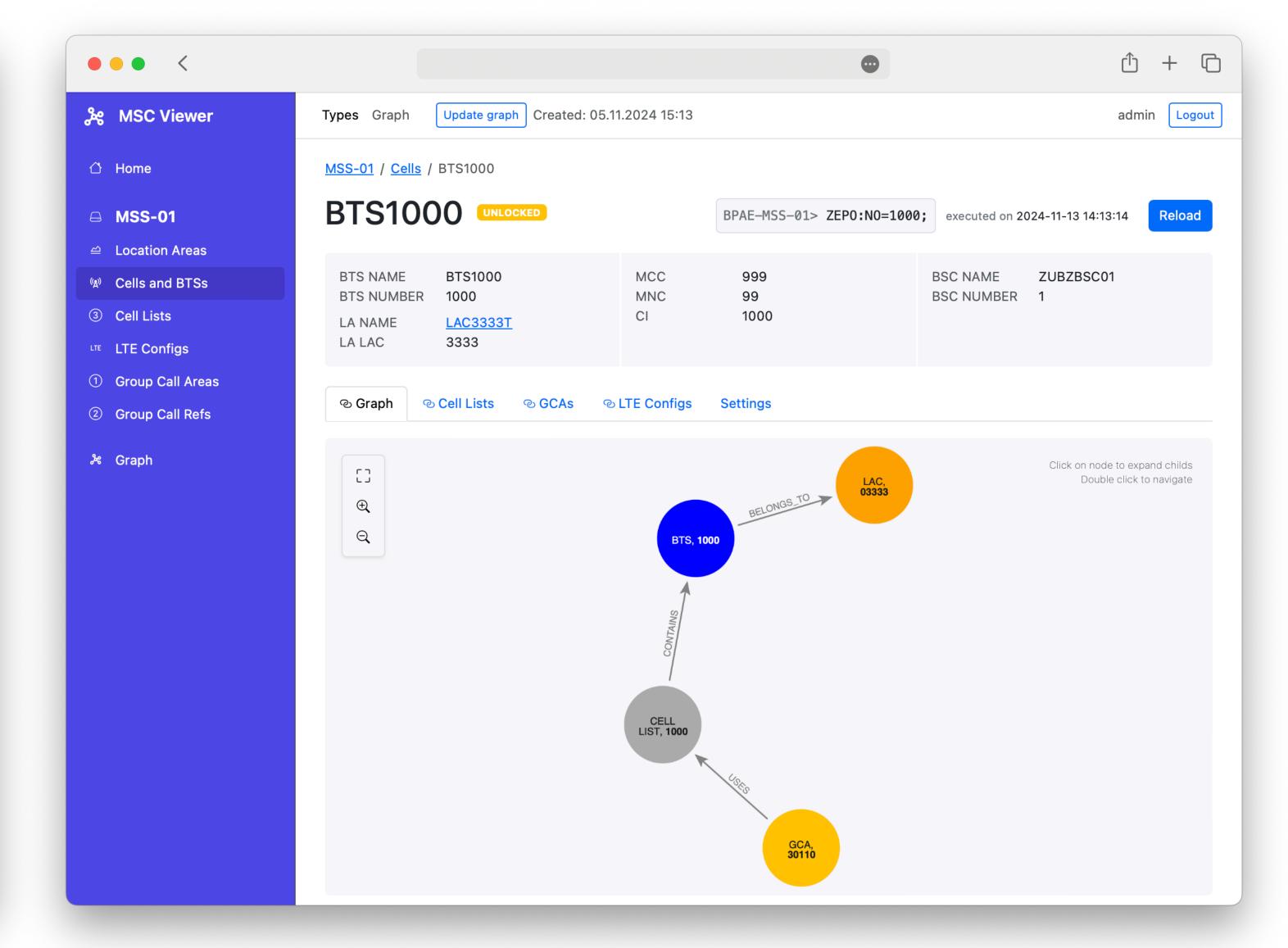
User-Friendly GUI for Nokia MSC/MSS



The Old Way

MAIN LEVEL COMMAND <___> < ZEP0:N0=1000;</pre> LOADING PROGRAM VERSION 17.10-0 BPAE-MSS-01 2024-11-13 14:31:46 lMSCi BASE TRANSCEIVER STATION DATA BTS NAME:BTS1000 NUMBER :1000 NAME : ZUBZBSC01 NUMBER :1 NAME :LAC3333T LAC :3333 MOBILE COUNTRY CODE(MCC)...:999 MOBILE NETWORK CODE(MNC)...:99 CELL IDENTITY(CI)....:1000 BTS ADMINISTRATIVE STATE: :UNLOCKED ROUTING ZONE:999 TARIFF AREA(TA)....:0 DOWNLINK DTX DISABLED BY MSC(DTX)...:OFF CELL DEPENDENT ROUTING(CDR)...:NORMAL CELL TEST STATE(TE)....:NORMAL CELL LOCAL AREA DIALLING CODE(LAD)...: -CHARGING AREA CODE(CA)....: -SUPPLEMENTARY CHARGING AREA CODES(SCA)...: -NO NCAS SUPPORT...........(NONCAS) :FALSE POSITION DETERMINATION TIMER.....(POST).. :0 (x 10 msec) ESRK USAGE.....(EU)....:NO ESRK RANGE INDEX...........(ESRK).. :0 PARAMETER SET.....(PSET)..: -GMLC INDEX FOR EMERGENCY SERVICES.....(ESGMLC) :0 LOCATION NUMBER OF CELL(CLN)...:4151233331000 TYPE OF LOCATION NUMBER(TON)...:INTERNATIONAL NUMBERING PLAN IDENTIFICATION(NPI)... :ISDN NUMBER PRESENTATION STATUS(PRES).. :RESTRICTED NUMBER SCREENING STATUS(SCREEN) :NETWORK PROVIDED

The New Way



Problem Statement:

Managing MSC/MSS via Command-Line Interface

- Problem: Complexity in managing configurations via terminal access.
- Challenges: Lack of overview of configurations and their relations, timeconsuming and error-prone MSC commands, constant referencing of documentation.
- Need: An intuitive, graphical solution to efficiently manage MSC and MSS configurations.

Our Solution: MscViewer

- Description: A user-friendly, web-based interface for MSC/MSS that helps users easily access, visualize and manage relevant configurations.
- Features: Easy search and navigation, data and relationship visualization, access control and simplified configuration management.
- **Benefits**: Saves time, minimizes errors and provides a safe, straightforward way to access MSC/MSS data.

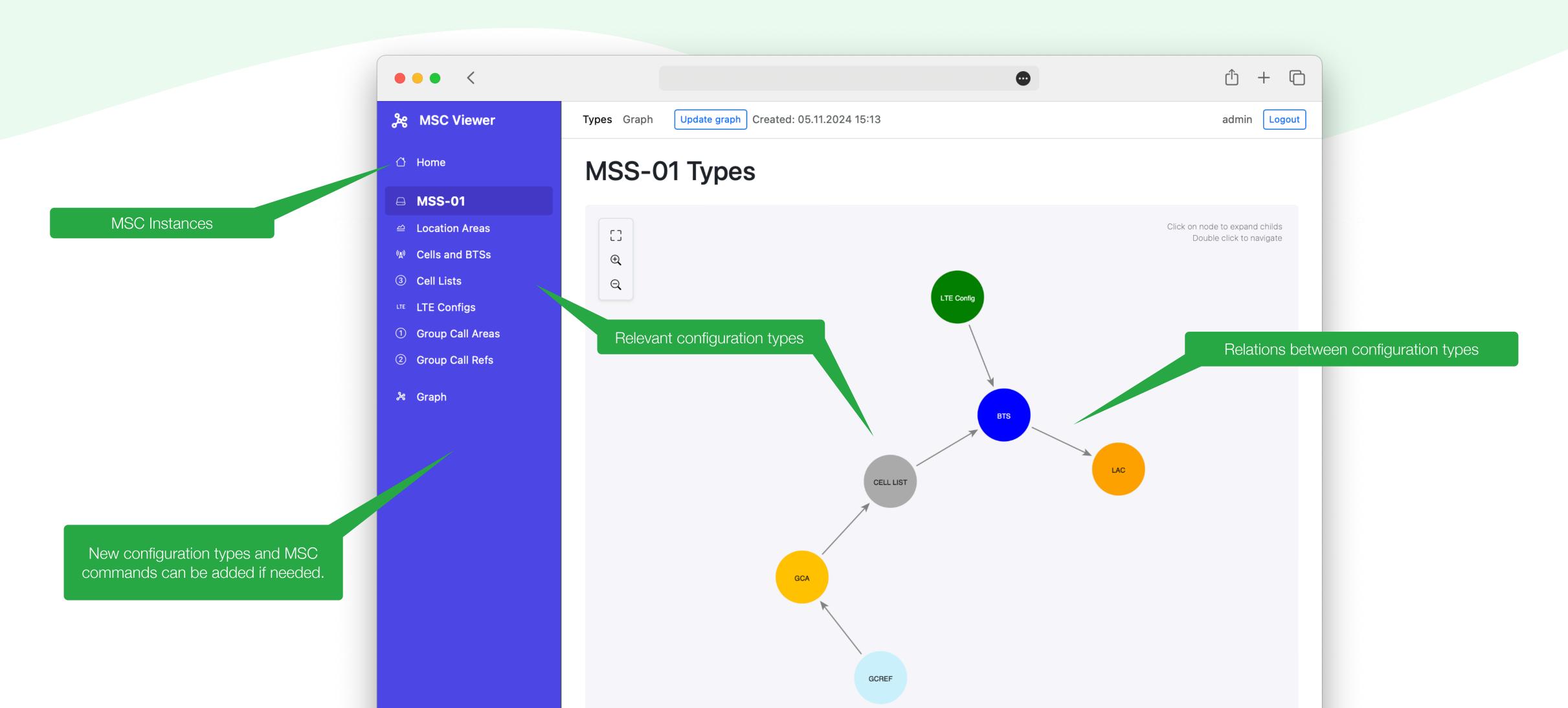
Feature Overview

Key Features:

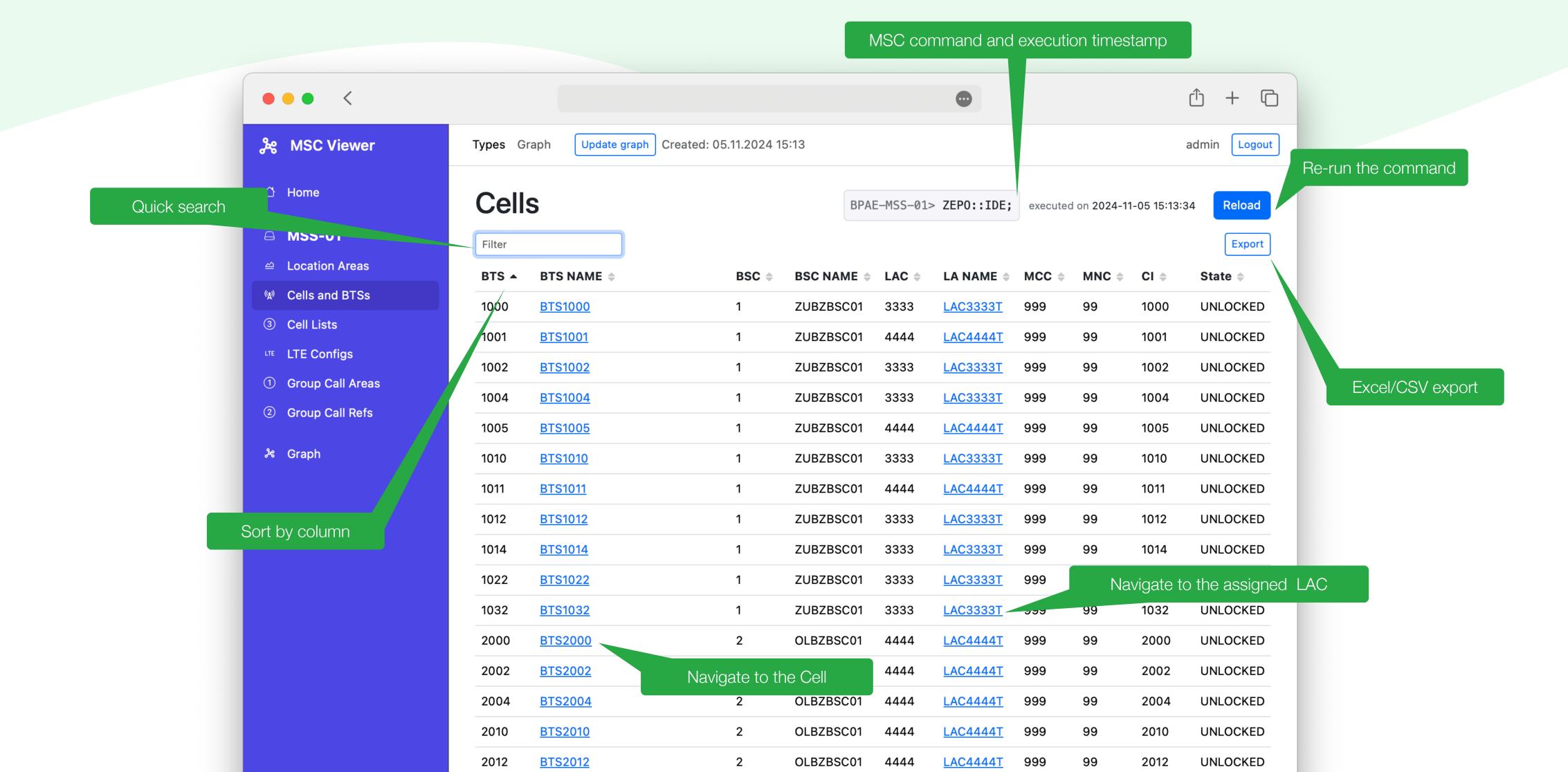
- Visualization of configuration hierarchy and relationships.
- Quick browsing and detail view of configurations.
- Export to Excel.
- Customizable for specific customer requirements, such as GSM-R.
- Manage multiple MSC instances through a unified interface.
- Advantages: Simplified MSC/MSS data access, safer operations, reduced complexity.

Product Tour: GSM-R Setup

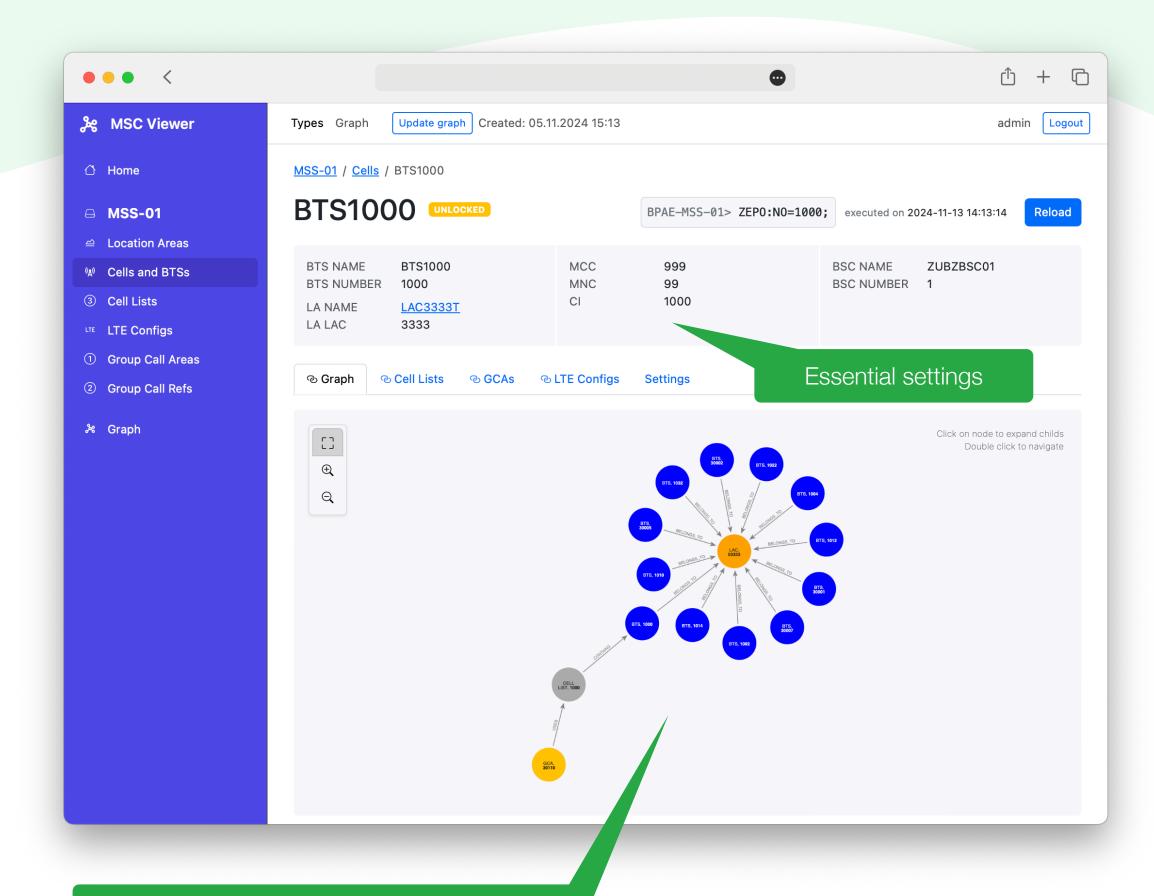
MscViewer is configured to visualize the GSM-R relevant configurations

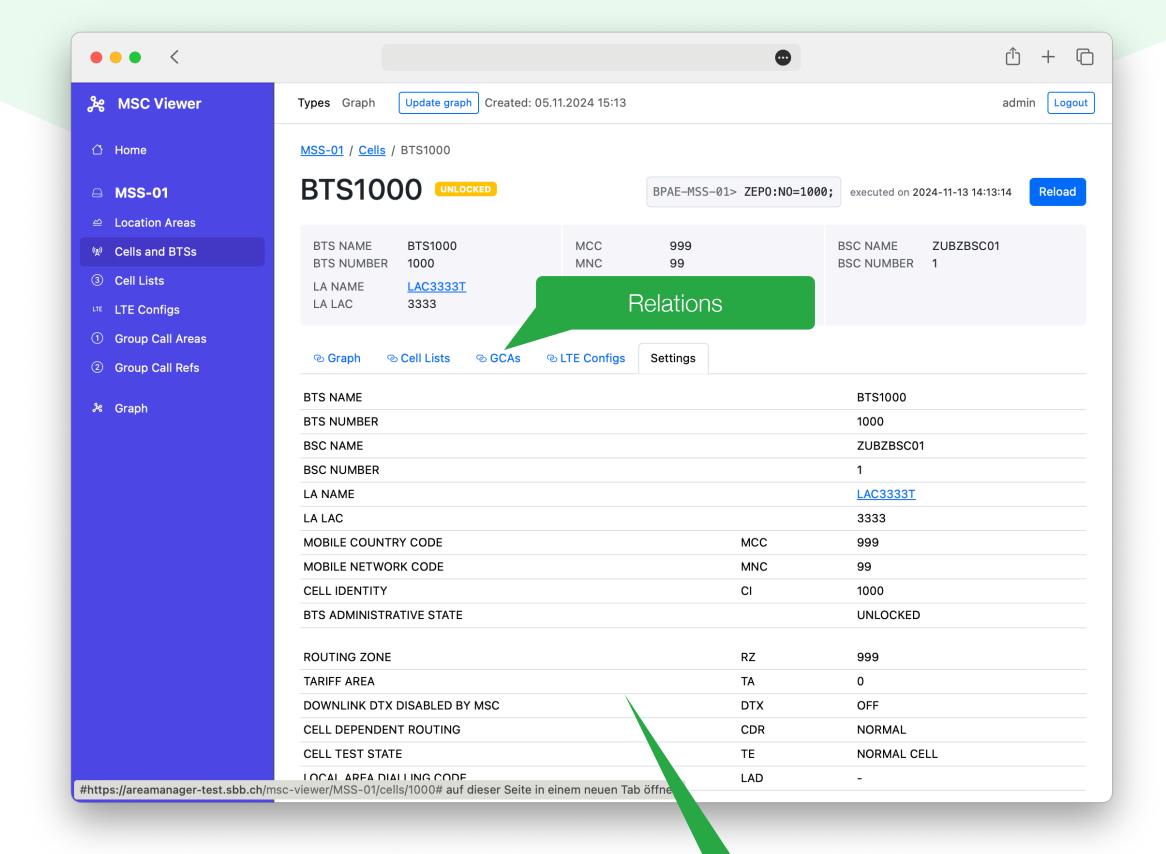


Browse Cells / BTSs



Show a Cell / BTS Data

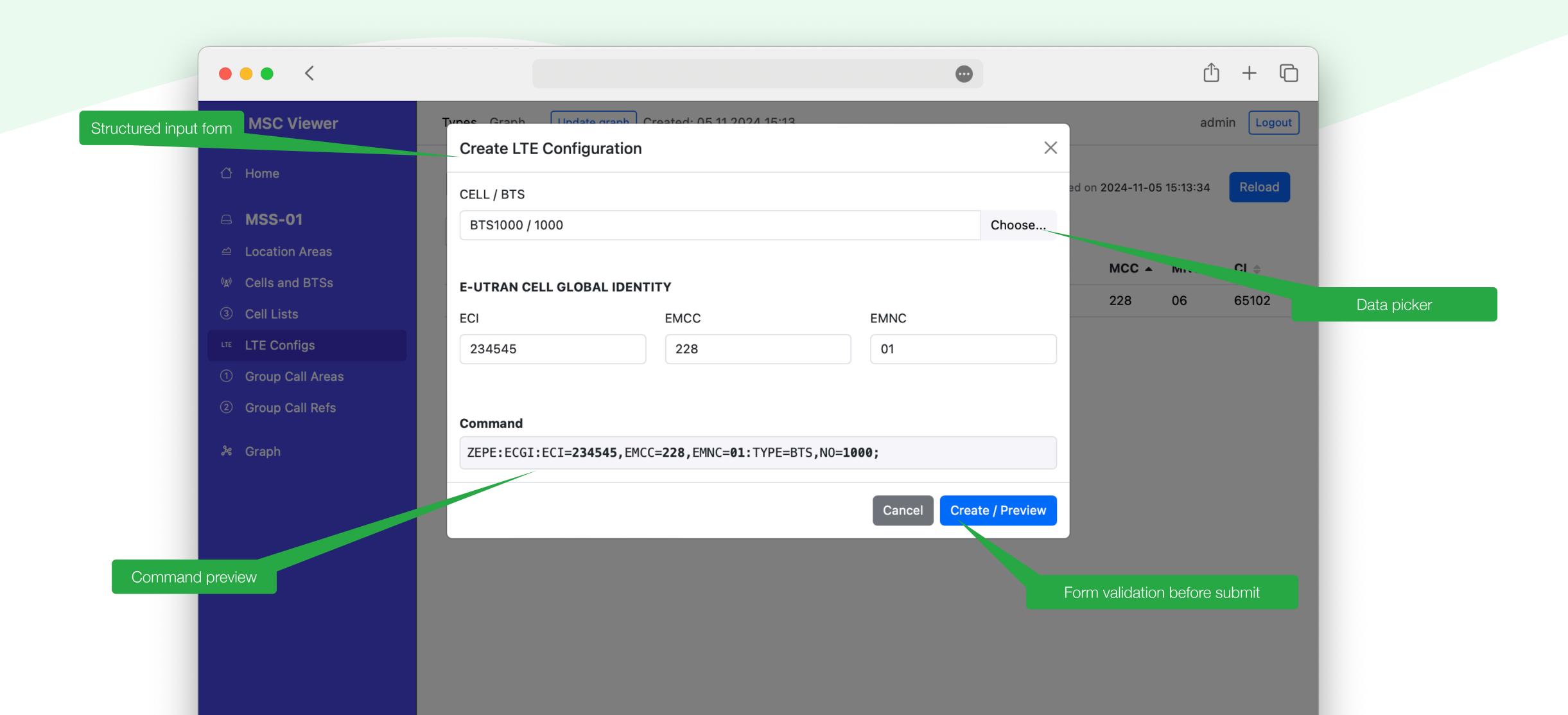




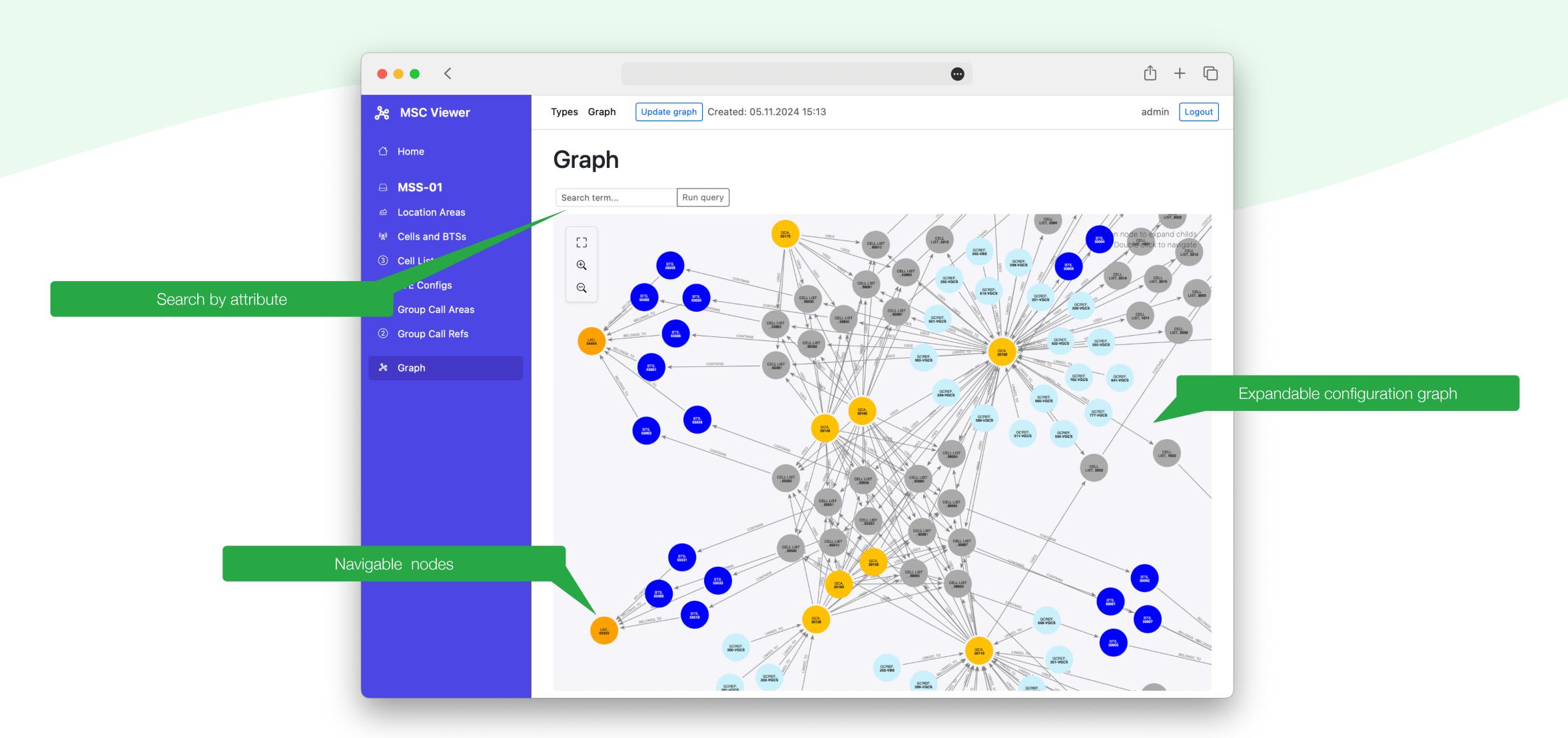
Expandable configuration graph

MSC output

Create a LTE Configuration



Explore Configuration Relationships



Steps to Launch the Solution

- Installation on-site or in an enterprise cloud environment (using Docker, Podman or similar tools)
- Configure access for MSCs, similar to access via CLI
- Define internal users or allow access through corporate Identity and Access Management (IAM)
- Configure allowed MSC commands and define relationships between them

Our Offering: All-In-One Solution

Software:

- User-friendly, web-based tool for MSC/MSS management
- Key features: Data visualization, configuration management and access control

Professional Services:

- Installation, customization and integration
- Expert consulting and configuration support

• Support:

- Ongoing maintenance and updates
- Technical assistance

Company: Greenstones GmbH

- Greenstones GmbH focuses on custom enterprise applications, with strong expertise in GSM-R, location intelligence and geocoding.
- Our team has more than 15 years of experience in the GSM-R environment and in related systems like MSC/MSS.
- We have extensive experience in development and support for enterprise clients, including SBB AG, Helvetia Versicherungen, Allianz SE, Pitney Bowes and Kölner Verkehrs-Betriebe.

Thank you!

Would you like a live demo or are there any questions?

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