E41

The New Face of IMS: Integration into DB2 Control Center

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IMS User Centered Design

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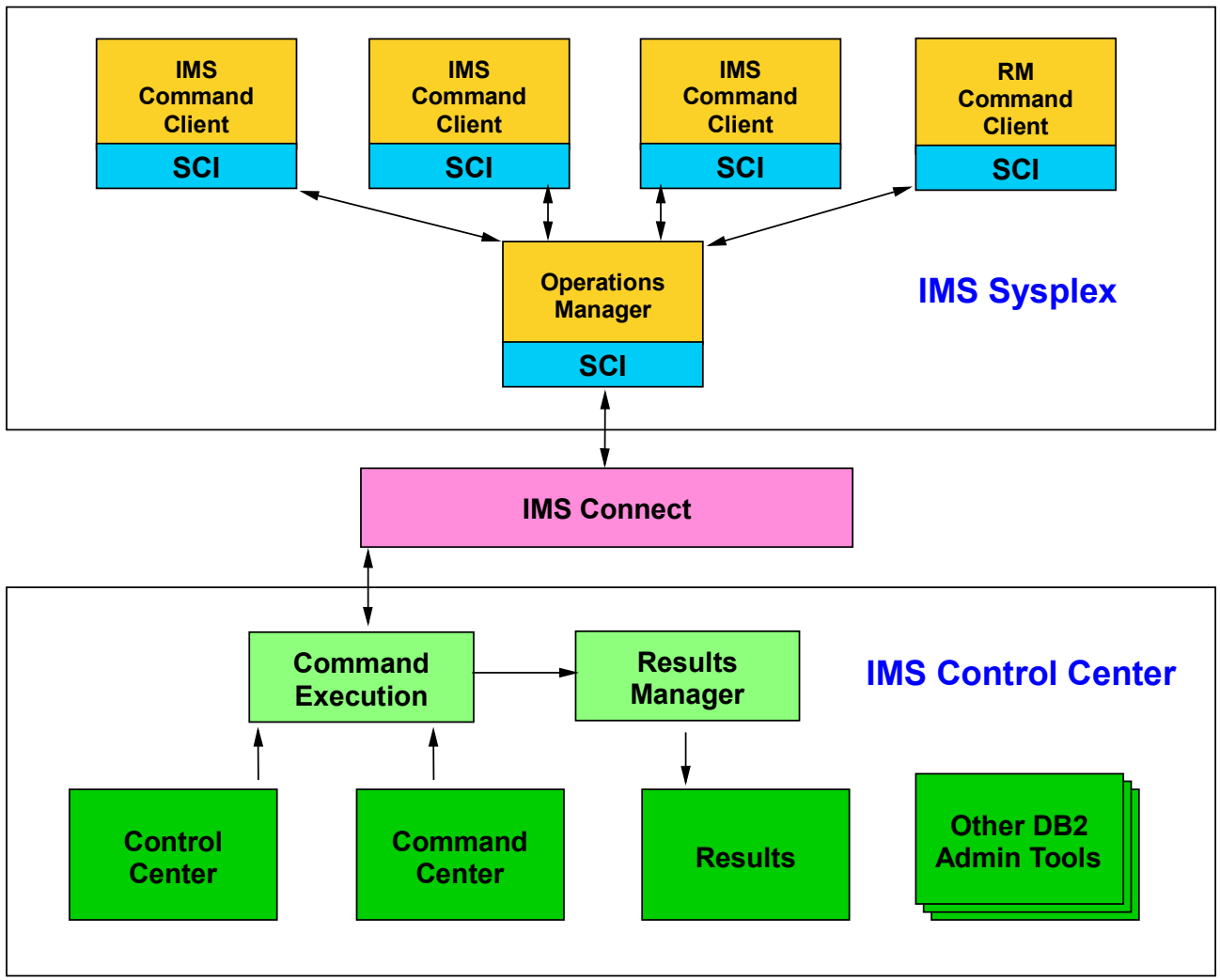
Goals of IMS Control Center

- Help to simplify the management of IMSplex operations and problem determination
- Provide an easy to use GUI for the new V8 Single-Image Operations Manager
- Provide a platform for modernization of the IMS systems management user interface

Context of IMS Control Center

- Within the scope of the resource types addressed in the V8 systems management
- Guided by the user demand for more consistency and integration of user interfaces
- DB2 Control Center as the IBM solution for data management ease of use

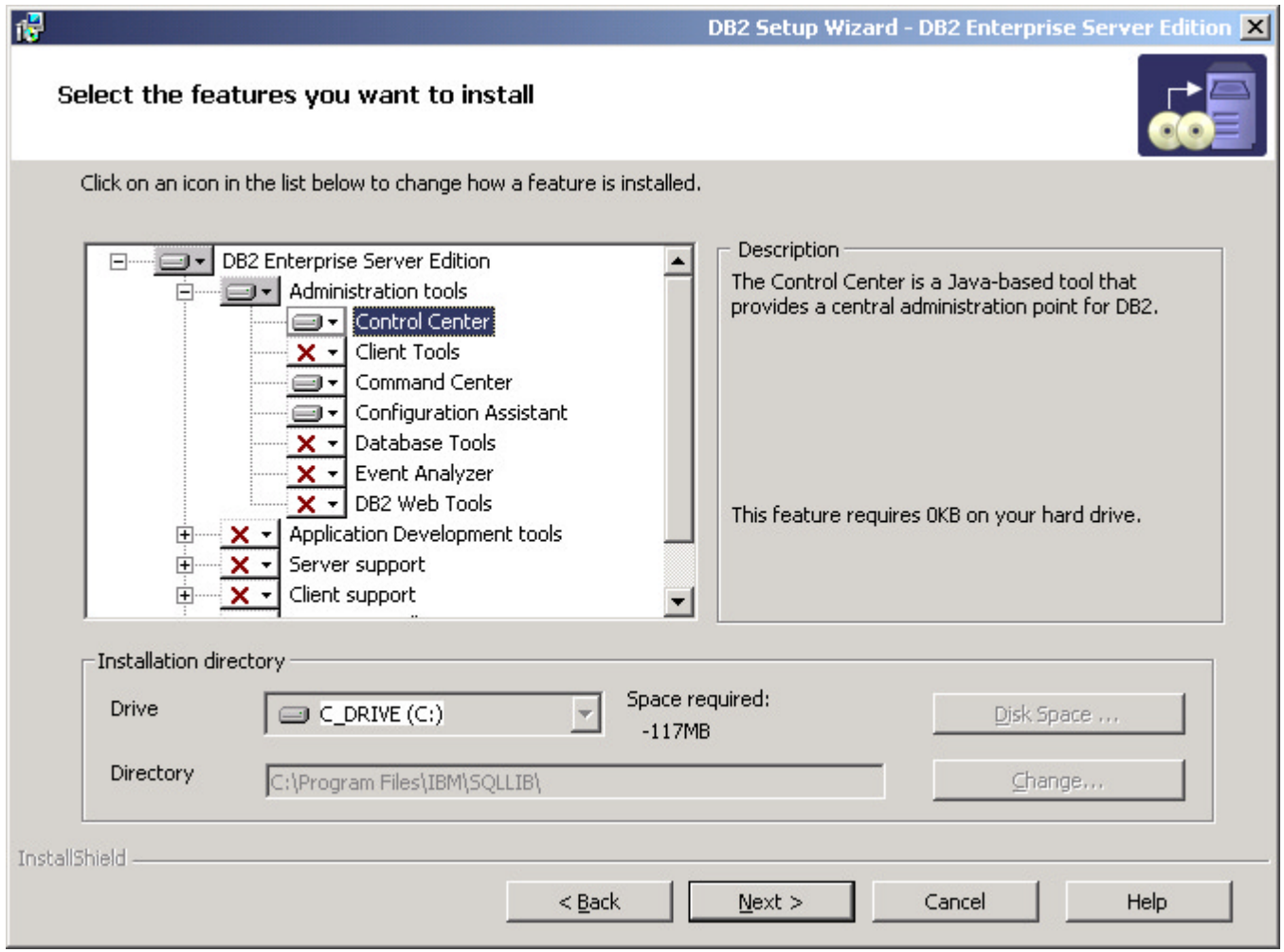
IMS Control Center Overview



IMS Control Center Up and Running

- Install IMS V8
- Configure V8 Operations Manager (OM)
- Install IMS Connect
  - APAR PQ62379 to precondition OM support
  - APAR ?? to enable support when IMS CC ships
  - Two statements in the configuration file
- Install DB2 V8 GUI Administration Tools
  - No DB2 engine installation required
  - Part of any DB2 license
  - DB2 for z/OS V7 is packaged with DB2 Connect includes an upgrade to the V8 GUI Admin Tools

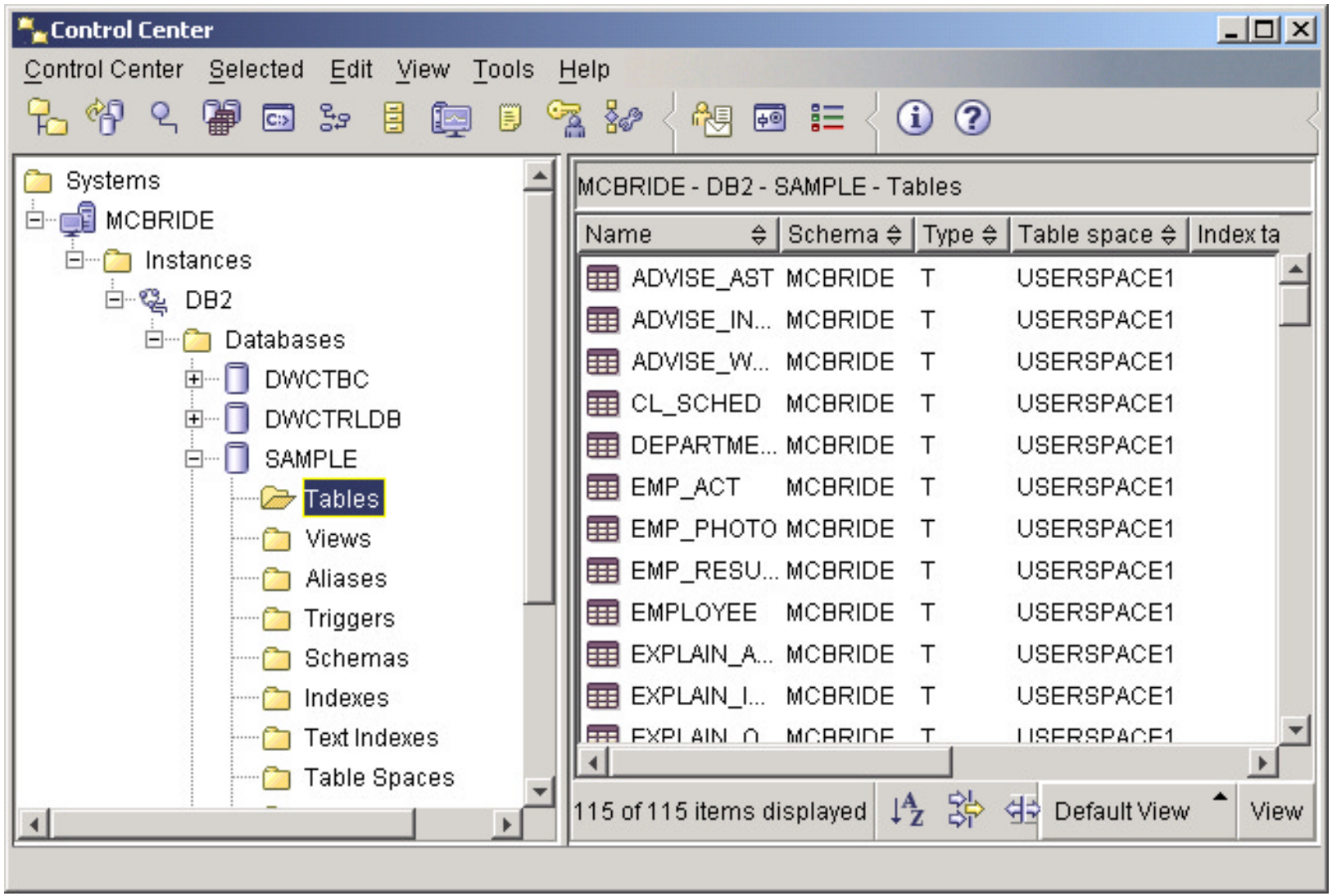
DB2 Control Center Installation



Control Center – DB2 System Tree

- Manage DB2 workstation systems / instances
- Manage DB2 for z/OS subsystems
- Create databases and related objects
- Explorer-style tree structure for navigation
- Wizards and simple dialogs for ease of use
- Launch the other GUI admin tools
  - Command Center
  - Health Center
  - Event Analyzer
  - Task Center and Journal
  - Data Warehouse Center
  - Information Catalog Center
  - Development Center
  - Replication Center

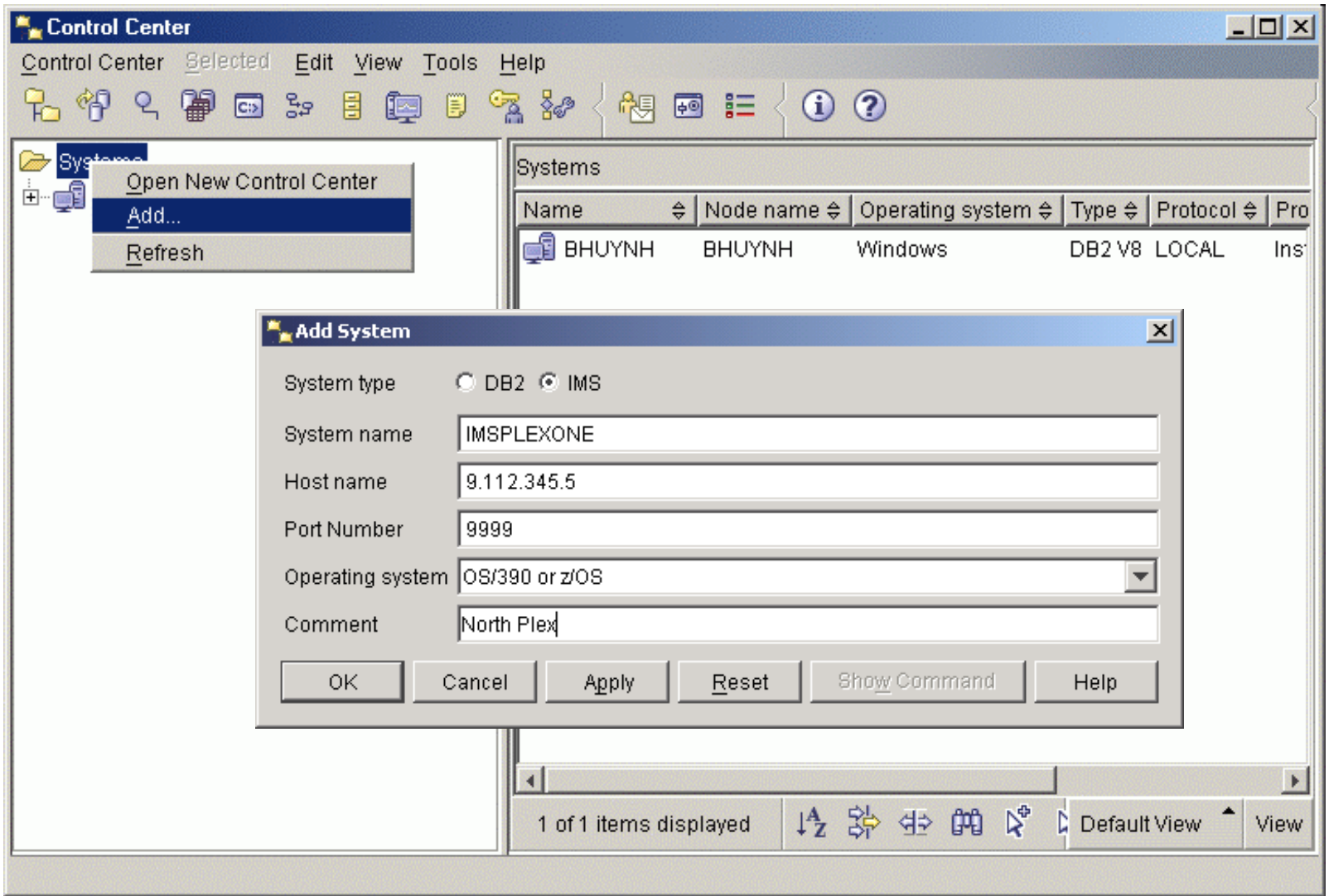
Control Center – DB2 System Tree



Control Center – Add IMSplex System

- Add an IMSplex from a pop-up menu of the Systems root of the Control Center tree
- Specify the IMSplex name
- Specify the z/OS host IP address
- Specify the port where IMS Connect is listening

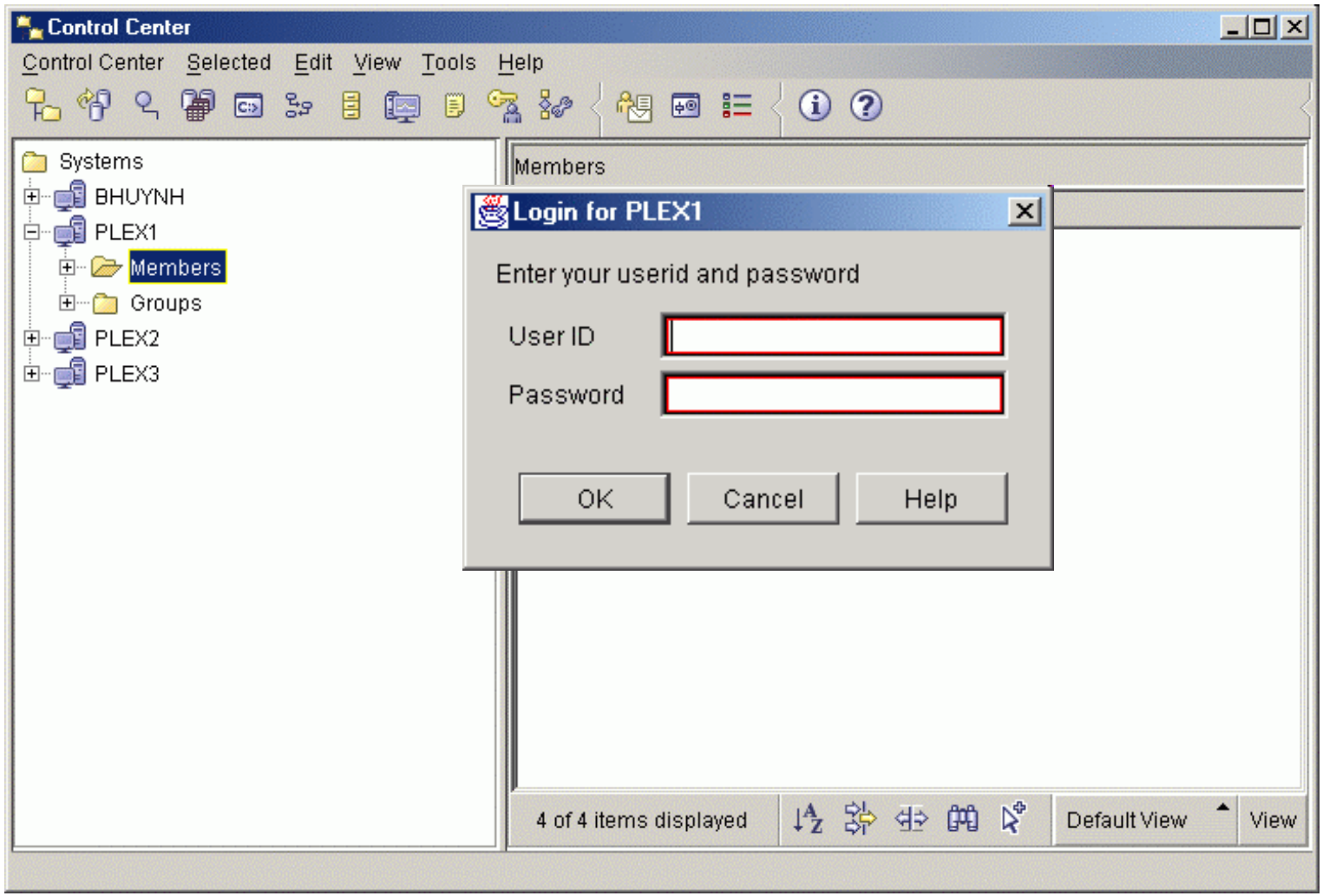
Control Center – Add IMSplex System



IMSplex Login

- Security provided on z/OS by RACF or equivalent security tool
- User ID and Password entered on client
- Login required for every session before active members become visible

Control Center – IMSplex Login

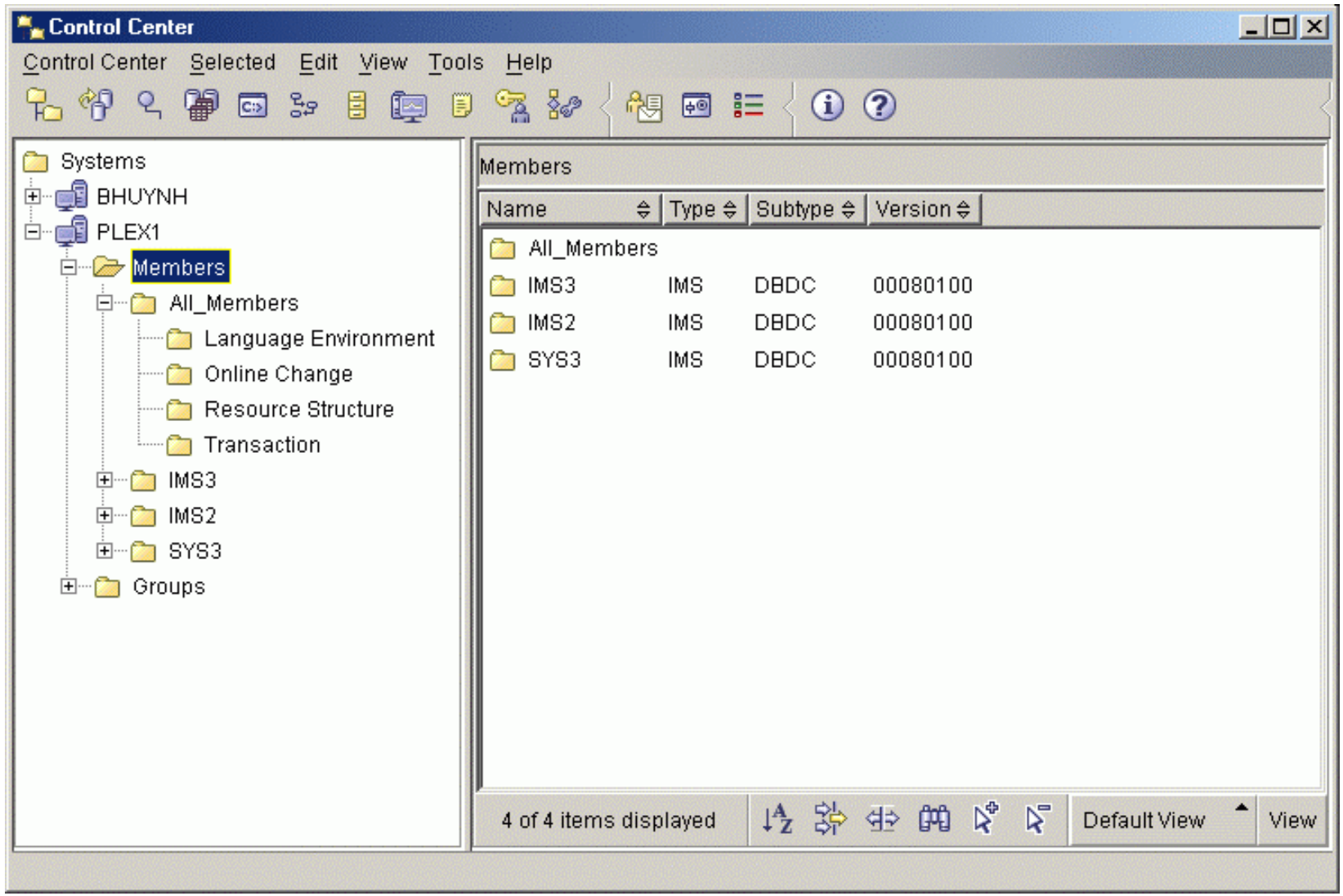


IMSplex Tree

- Lists the IMSplexes you have added
- Lists active IMSplex command client members (in V8, IMS and RM type members)
- Lists resource types for each member

- During a session, the list of members can be updated using Refresh from the IMSplex menu
- All IMSplex members can be listed using Query… from the IMSplex pop-up menu

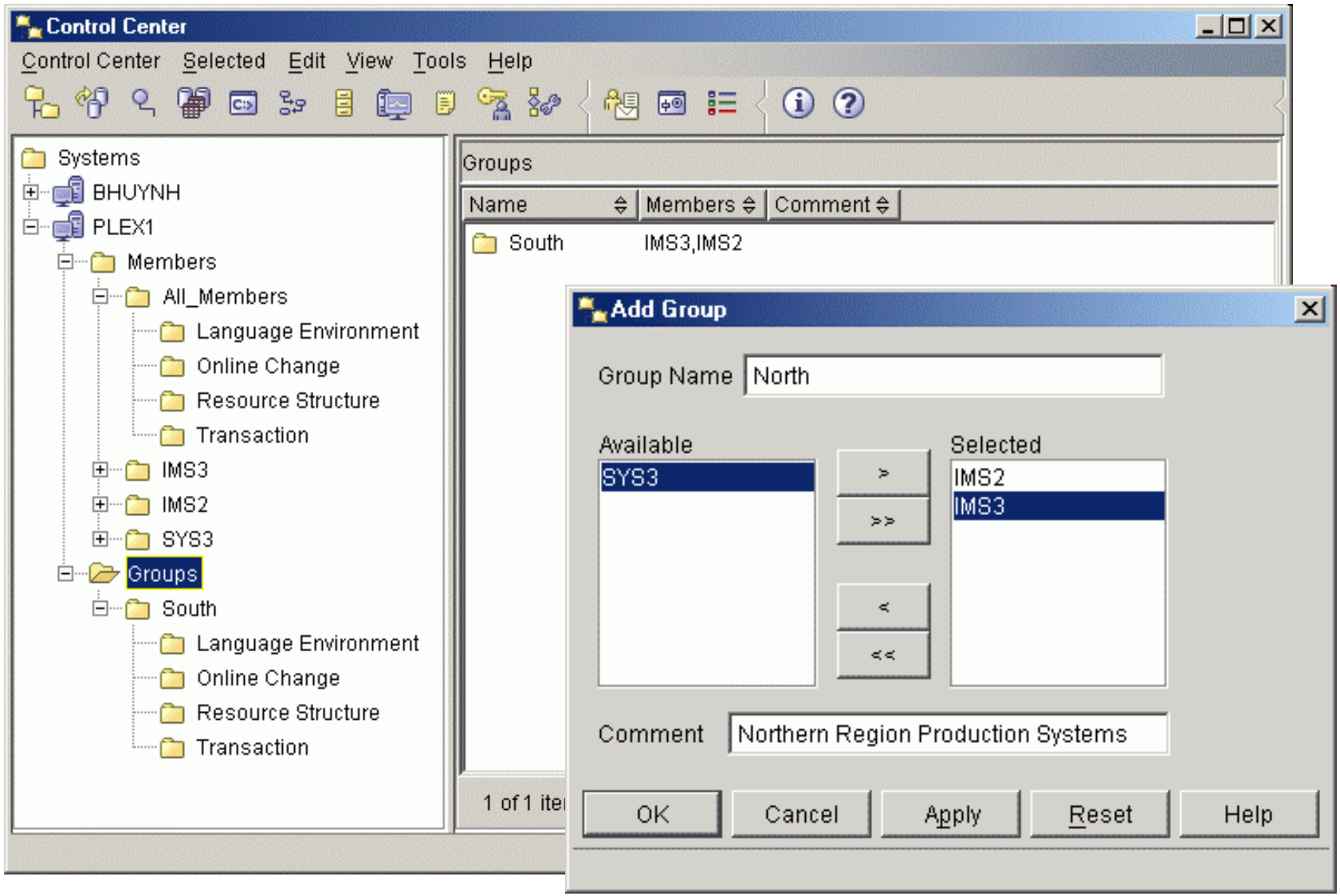
Control Center – IMSplex and Members



IMSplex Member Groups

- Named groups for any subset of members
- All_Members group provided as the single-point-of-control (SPOC)
- A command sent to a group is sent to all members of that group
- OM gathers all member responses before returning results to the Control Center

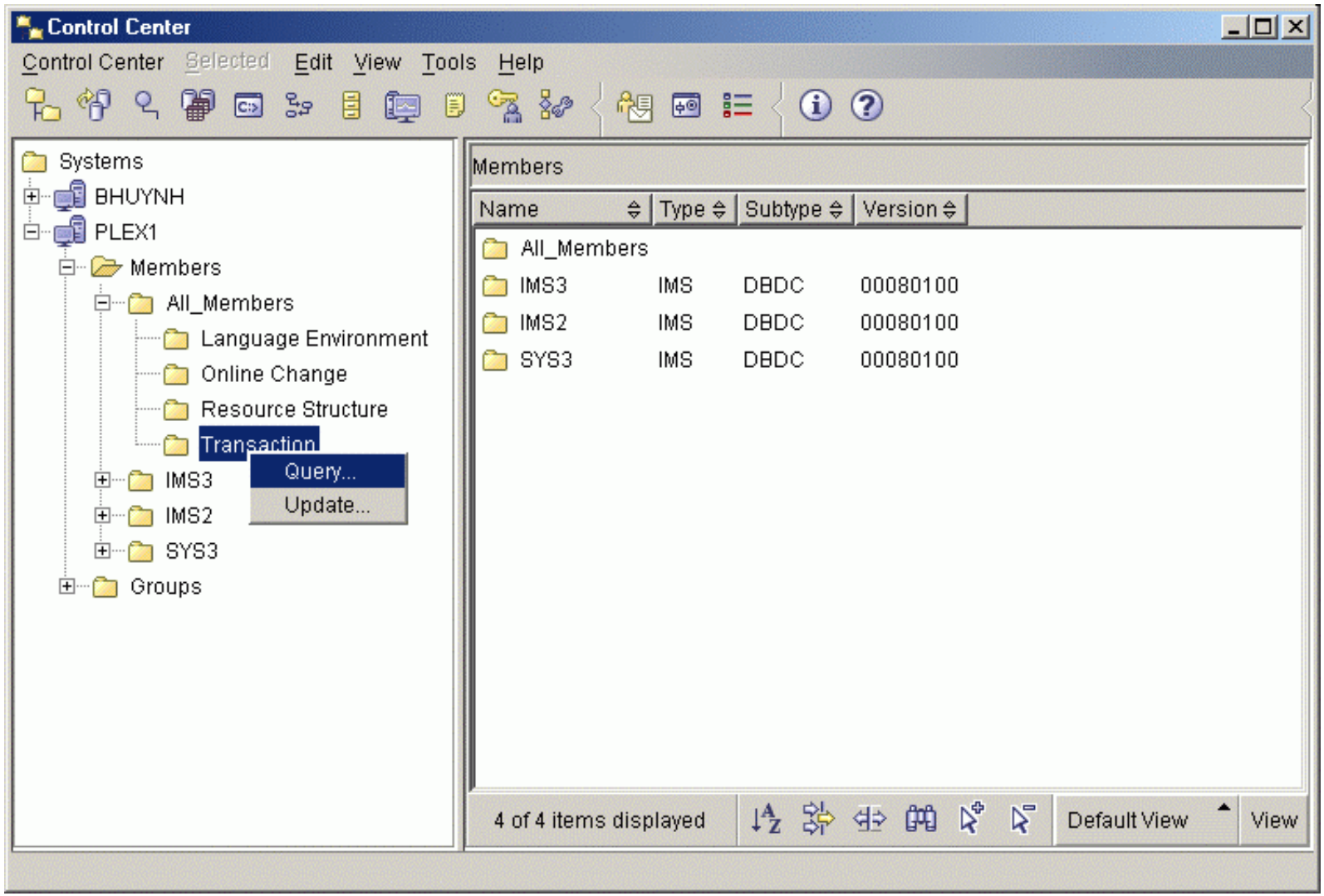
Control Center – IMSplex Member Groups



New IMSplex Commands

- Query IMSplex
- Query Member
- Query LE
- Update LE
- Delete LE
- Initiate Online Change
- Query Online Change
- Terminate Online Change
- Query Structure
- Query Tran
- Update Tran

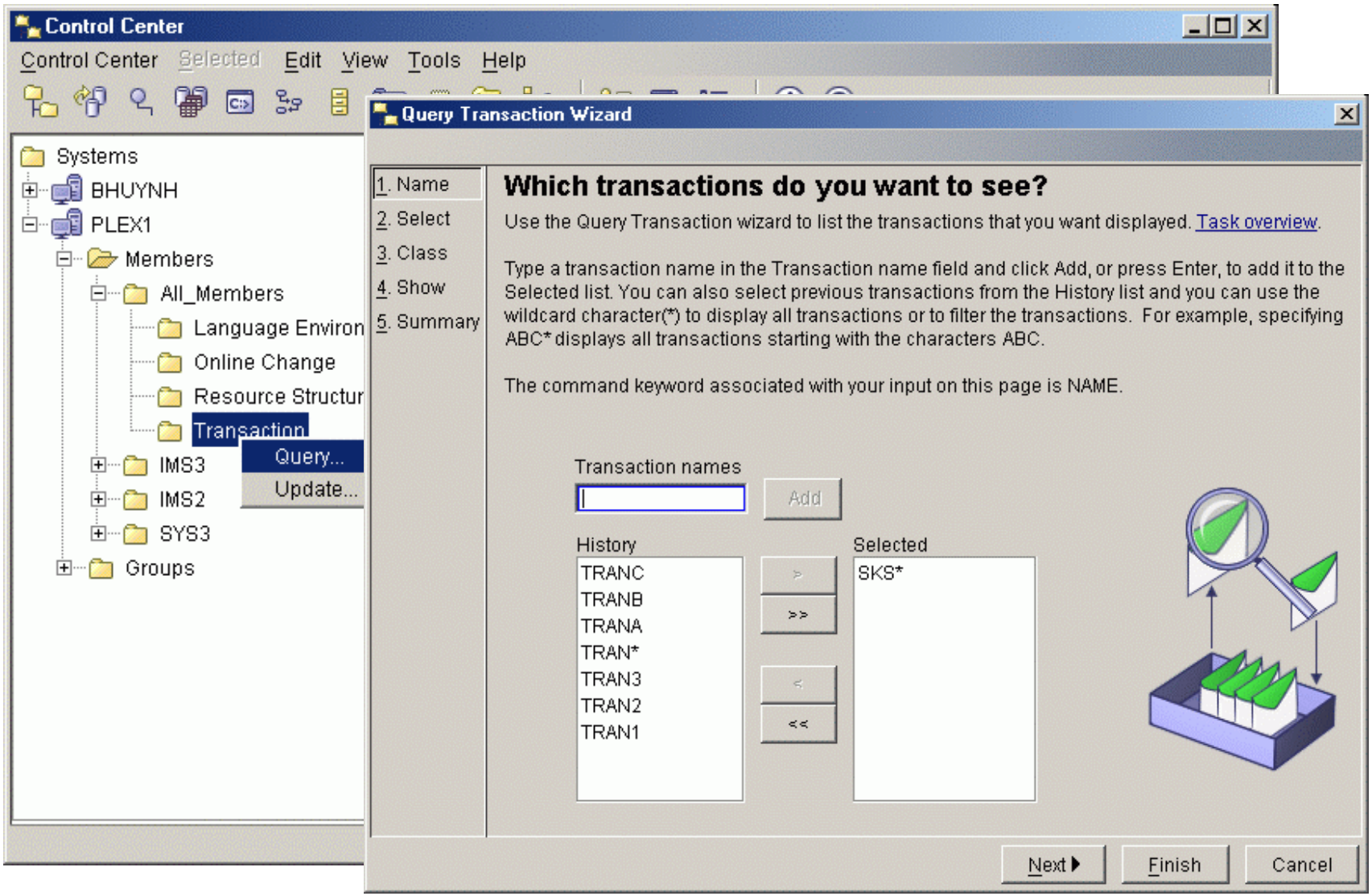
Control Center – New IMSplex Commands



New IMSplex Command Wizards

- Wizards for each of the new commands
- Query wizards displayed automatically when clicking on a resource type folder
- Launched from pop-up menus in Control Center or objects in Results window
- Provide step-by-step prompts and instructions
- Previous names remembered in history list

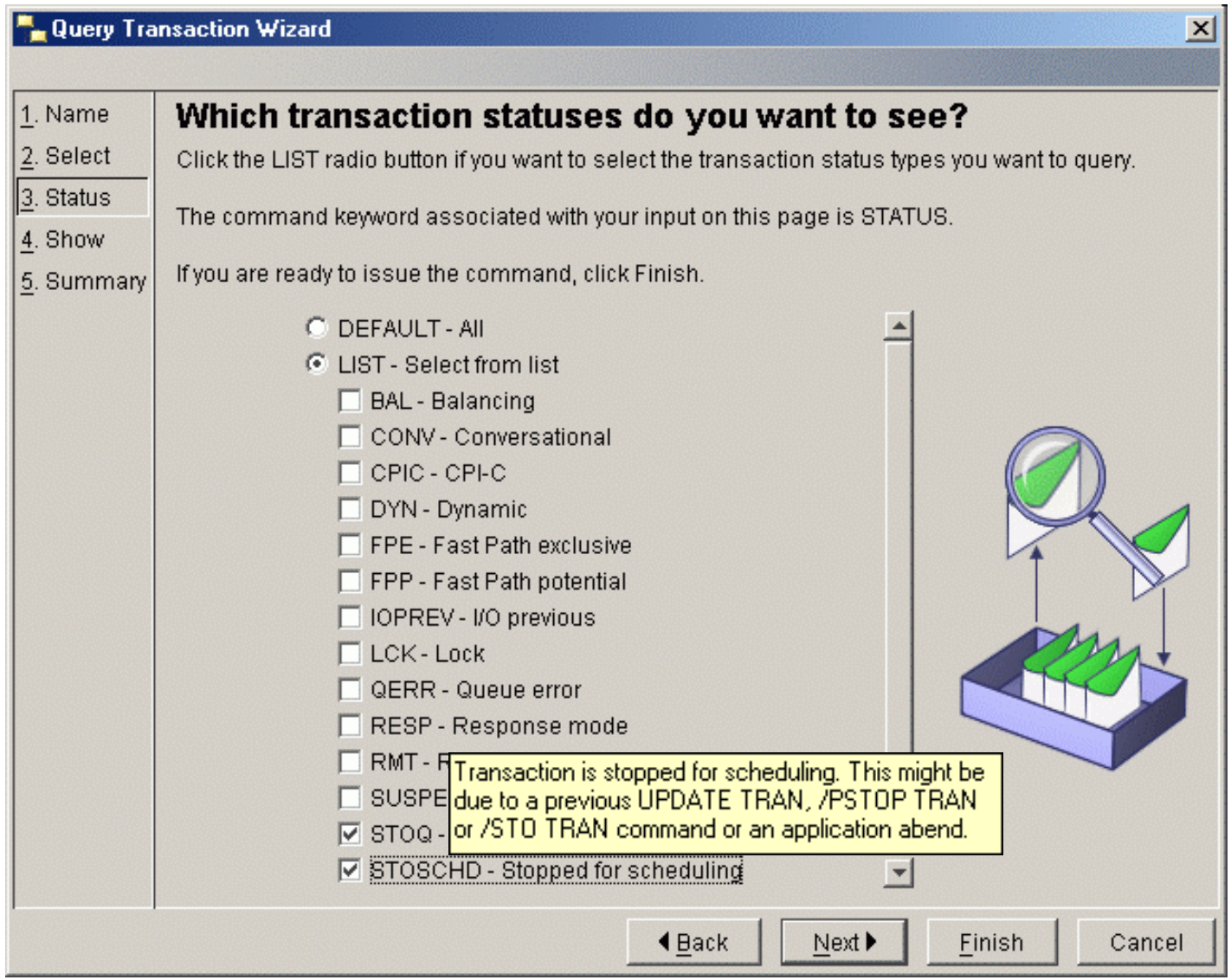
New IMSplex Command Wizards



Wizard Help for Command Options

- Select command options from lists
- Help pop-ups for each option
- Option keywords listed for learning commands

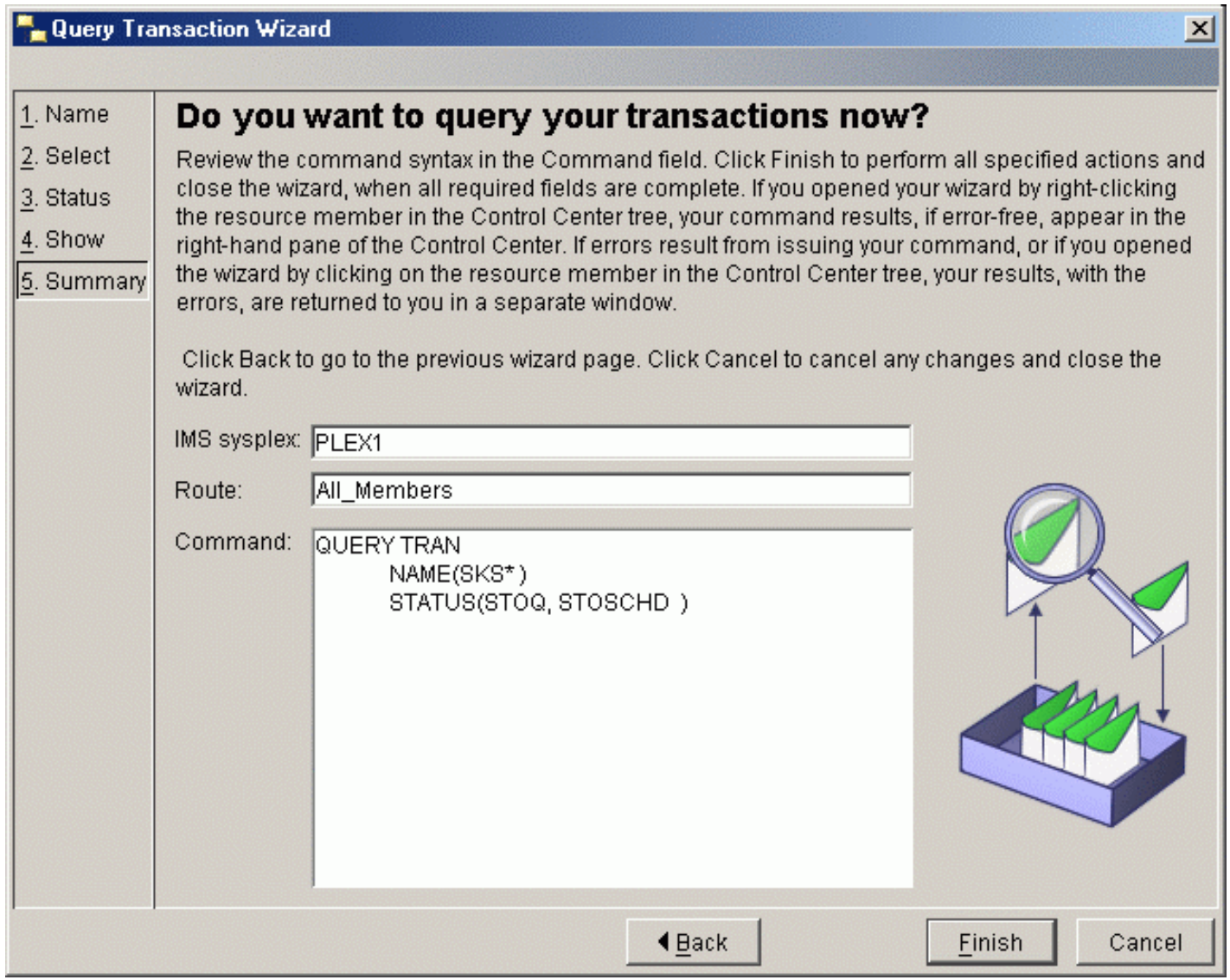
Wizards – Help Selecting Command Options



Wizard Generated Command

- Command generated by user selections is displayed on the Summary page
- IMSplex and Route are also displayed
- Finish button sends command to OM through IMS Connect

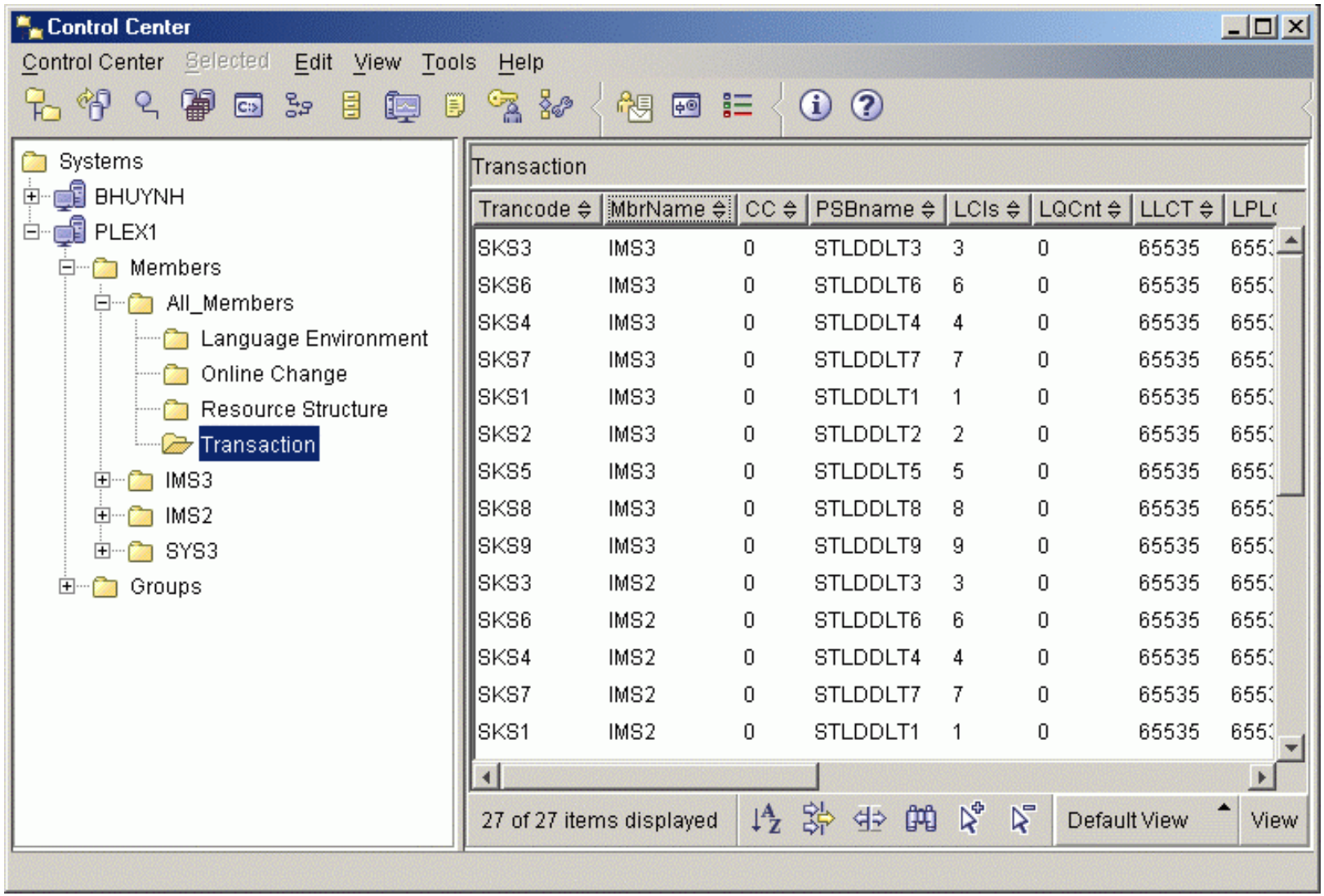
Wizards – Generated Command



Displayed Resources in Control Center

- Resources displayed as the contents of the resource type folder
- Resources displayed in a tabular format
- Resources ordered by member as they were returned by OM
- Columns can be reordered by drag and drop or using the customize columns dialog
- Find enables search for specific values

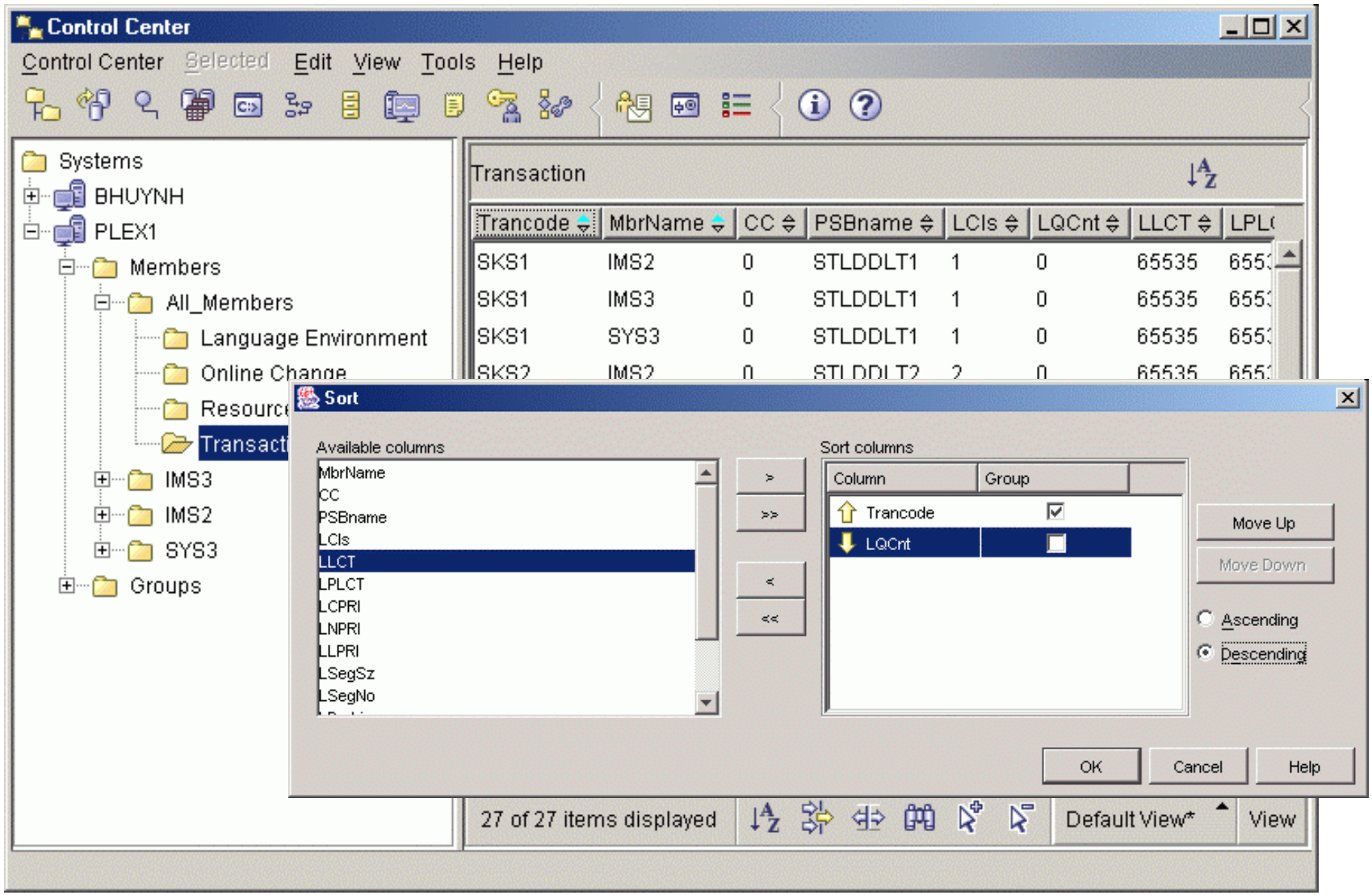
Control Center – Displayed Transactions



Command Results Sorting

- Resources can be sorted on any column by clicking on the column header
- Click again to reverse ascending/descending
- Sort dialog available from view toolbar enables multi-level sorting and grouping

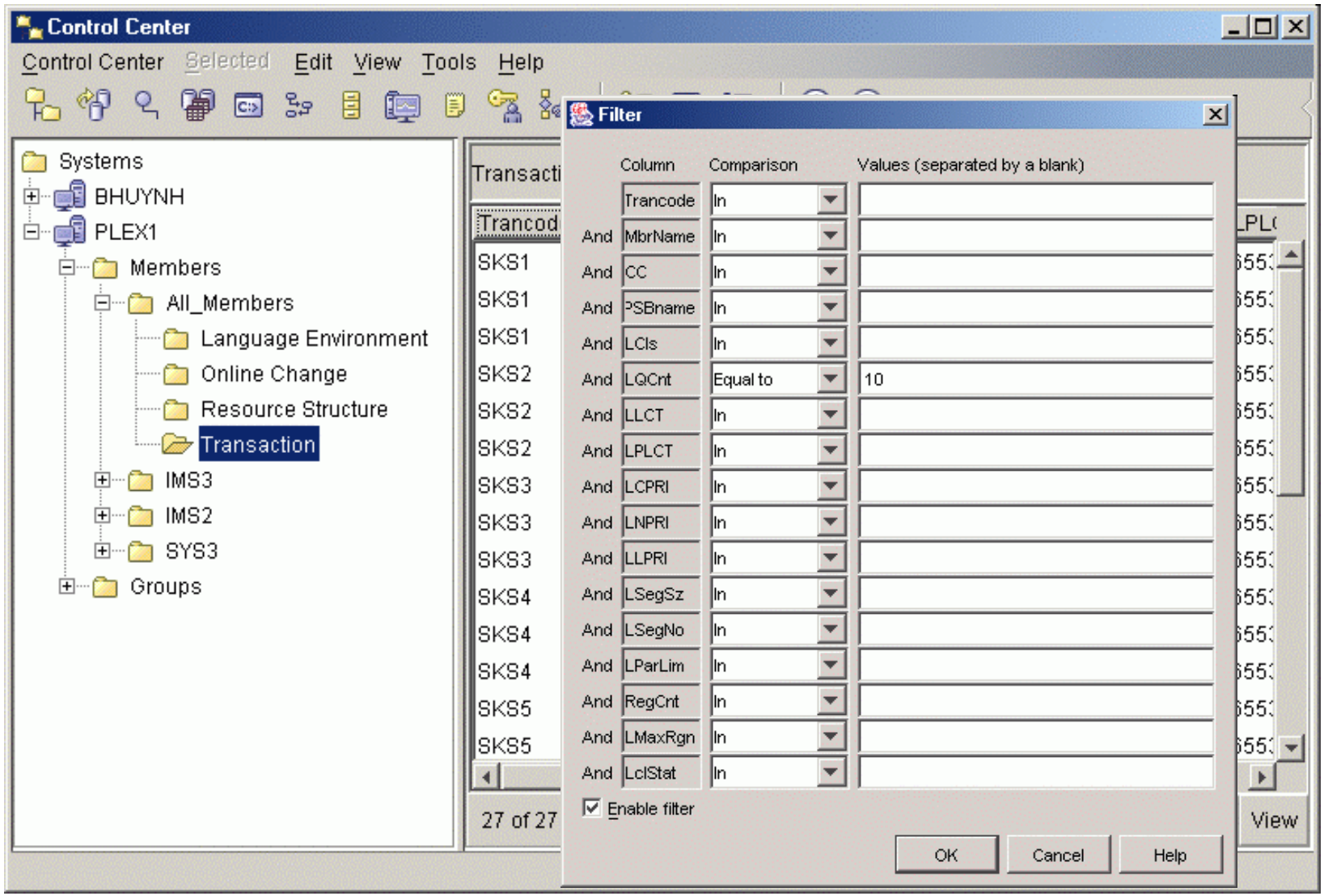
Control Center – Results Sorting



Command Results Filtering

- Filter dialog available from view toolbar
- Filter resources on any columns
- All resource information is saved locally, allows applying any number of successive filters to study data

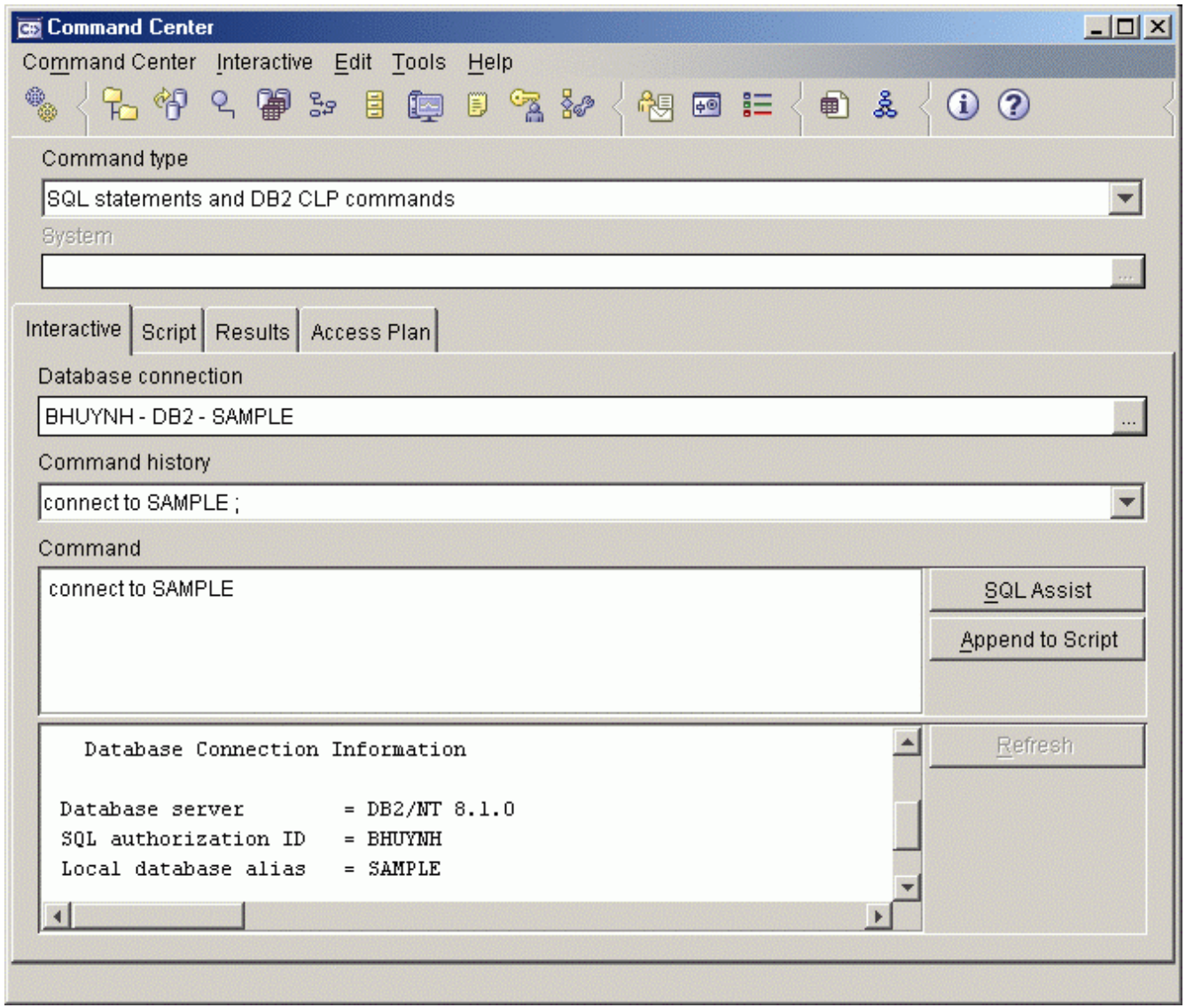
Control Center – Results Filtering



Command Center

- Command types
  - SQL statements and DB2 CLP commands
  - IMSplex and IMS classic commands
  - Host commands
- Command and response log
- Command script
  (not currently supported for IMS)

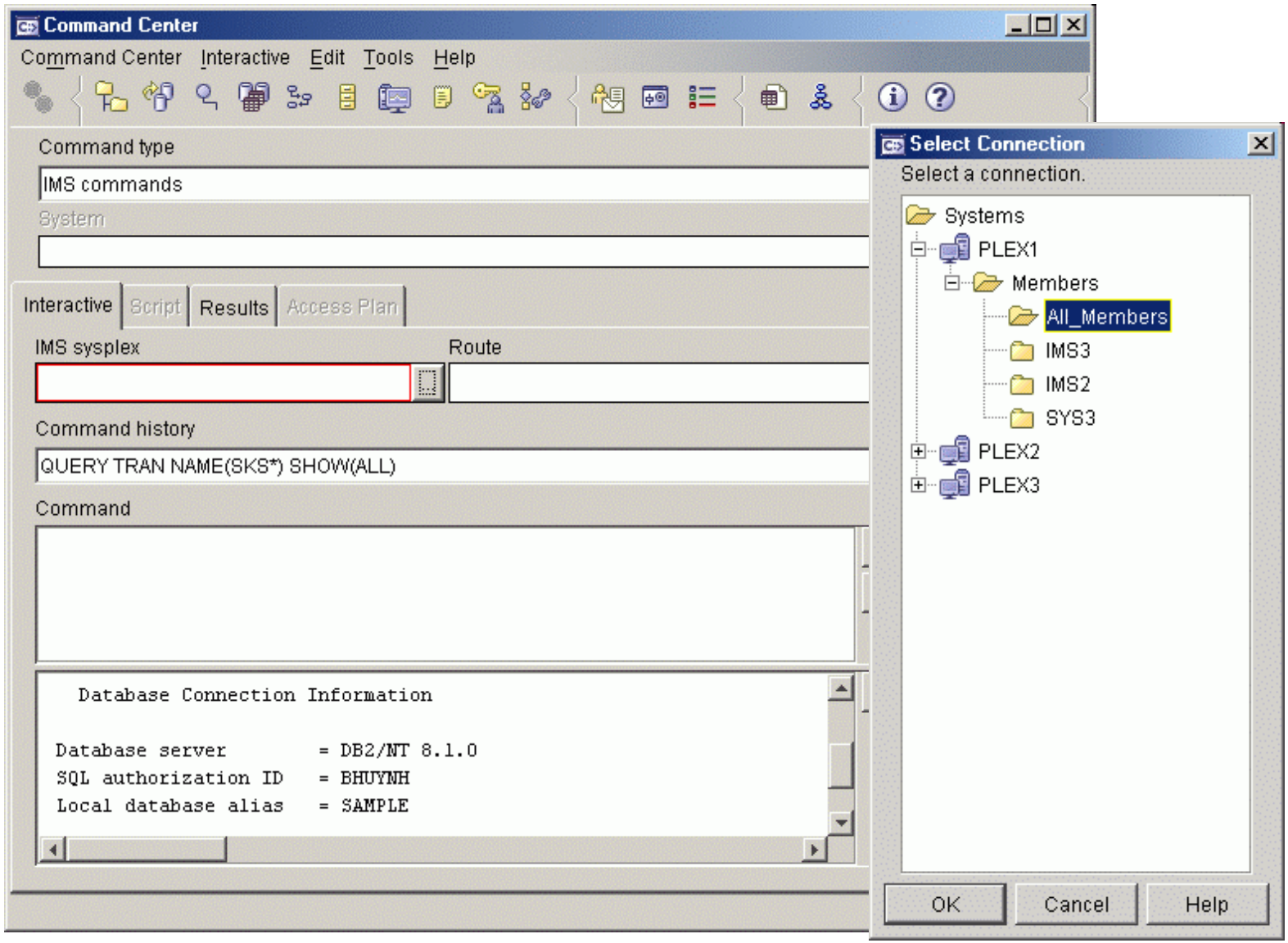
Command Center – DB2 Commands



IMS Commands

- Select the IMS commands type
- Select IMSplex connection
- Select member route
- Type command or select from history
- Commands executed asynchronously – you do not need to wait for a response before executing the next command

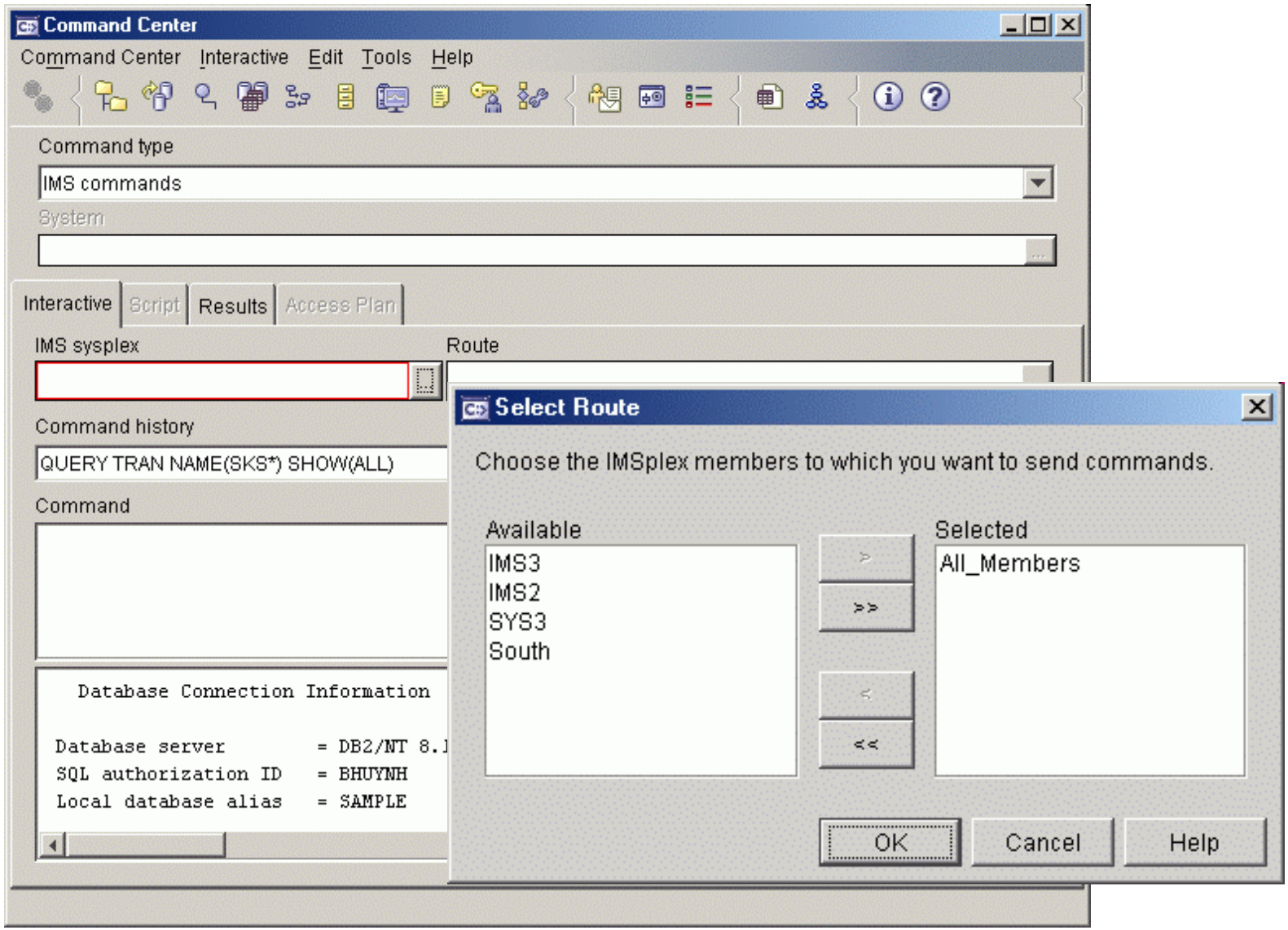
Command Center – IMS Commands



Member Route

- Route commands to selected members
  - All_members
  - Individual members
  - Defined groups

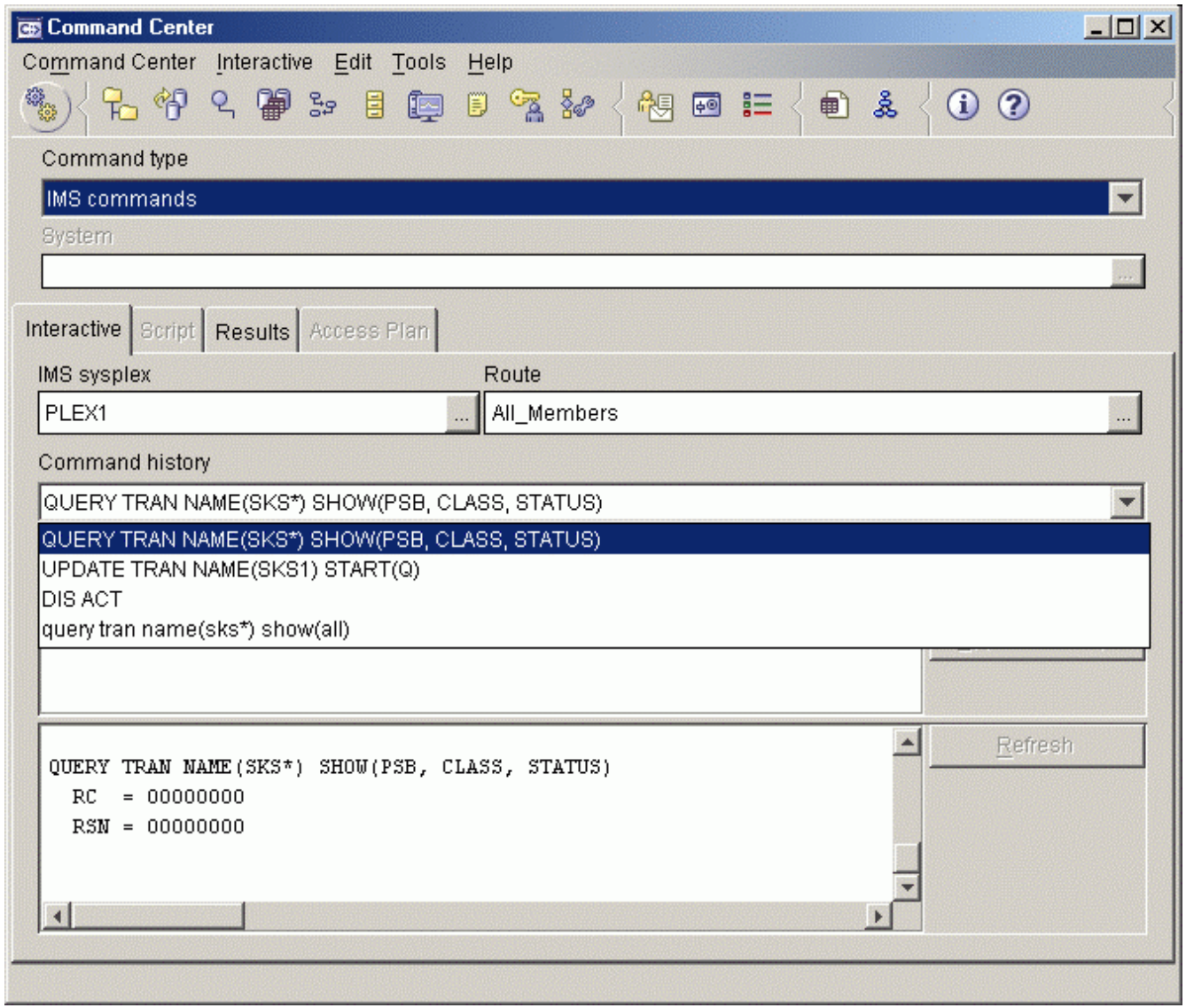
Command Center – Member Route



Command History

- Recent commands saved and selectable from the Command history drop-down list
- User can specify the number of commands saved in the Command Center options

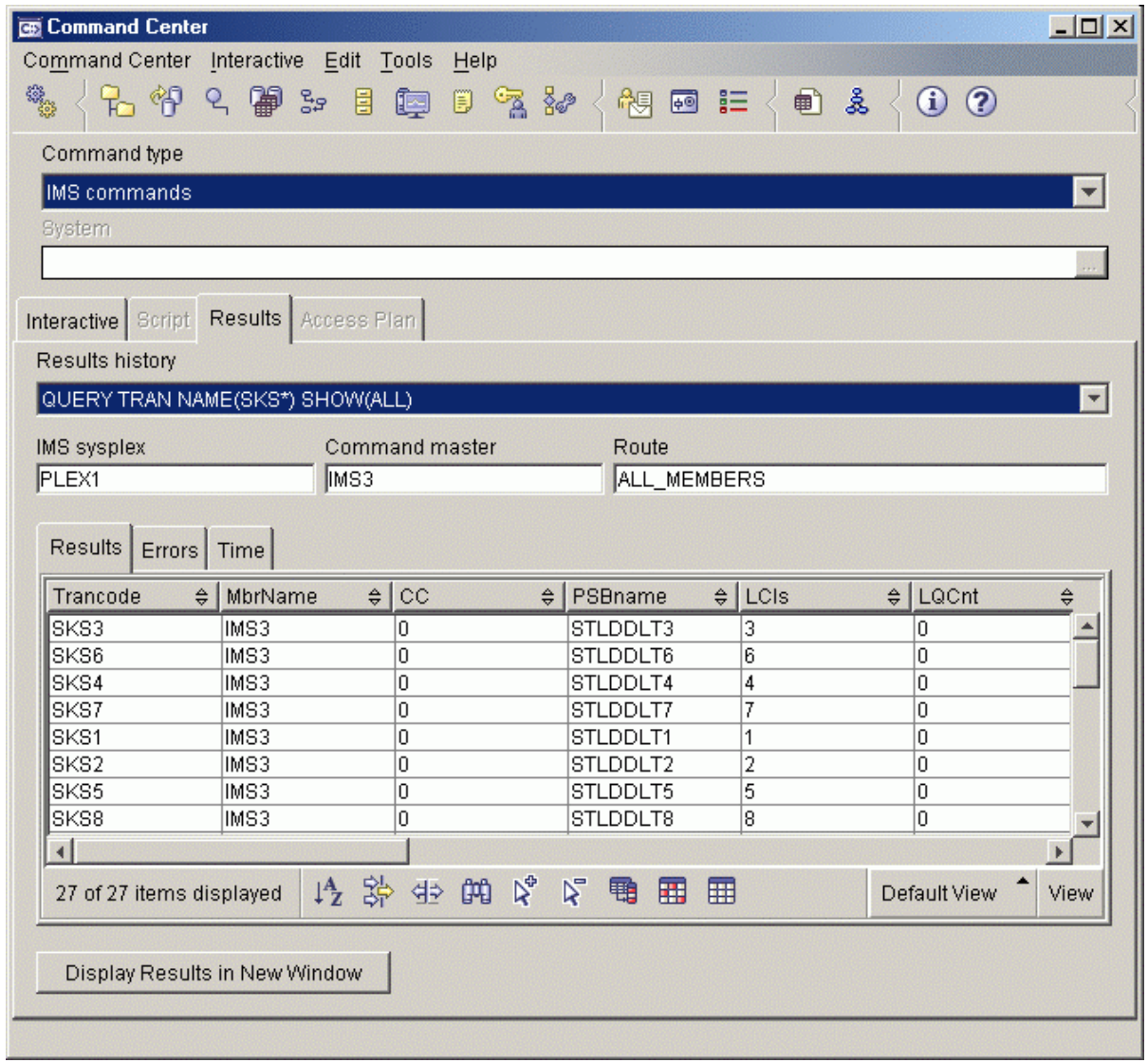
Command Center – IMS Command History



IMS Command Results

- Results tab in the Command Center
- By default, appears automatically when results are available
- Shows IMSplex, command master, and route
- Same sorting, grouping, filtering, and column customizing as in the Control Center

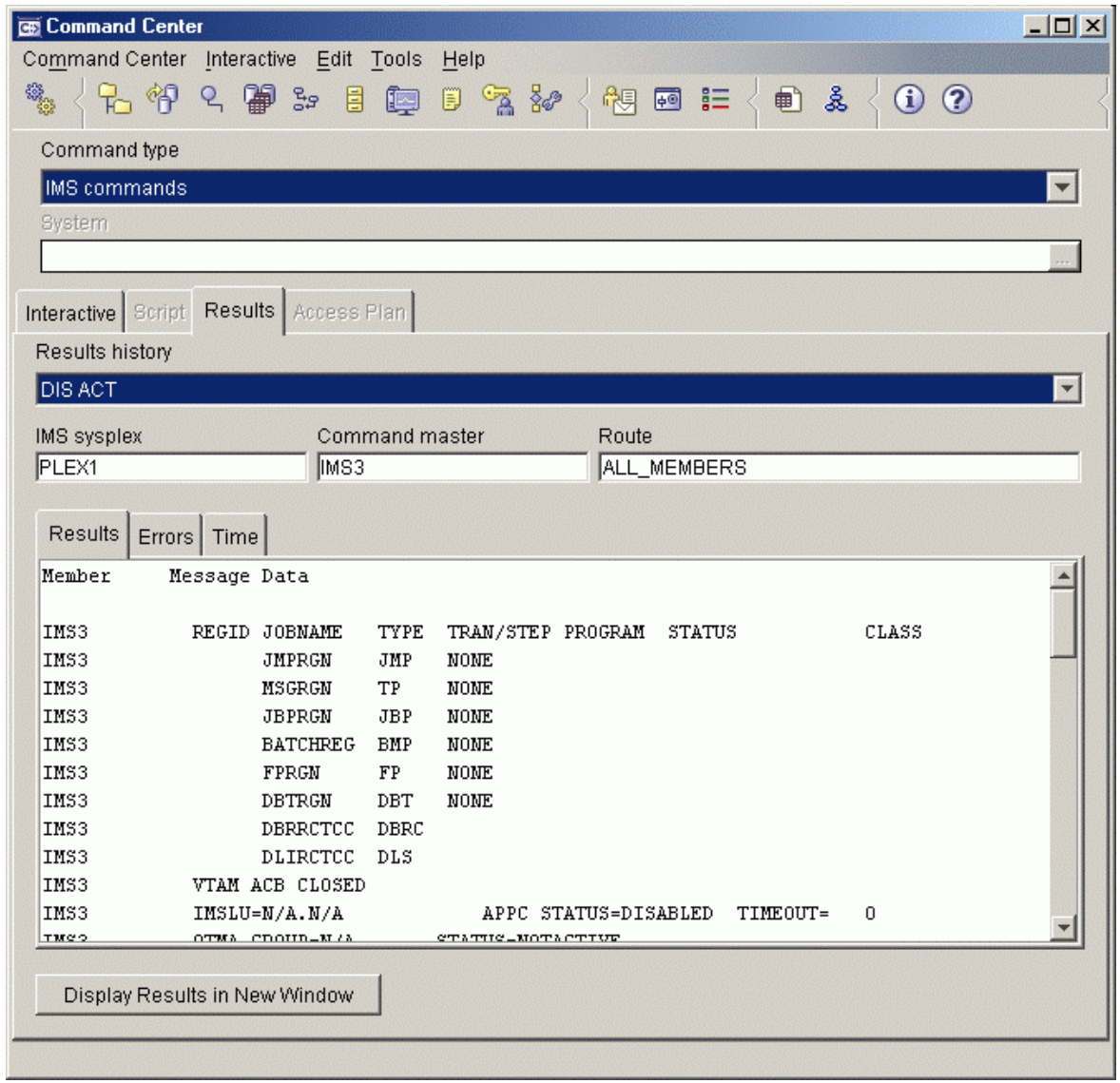
Command Center – Results Tab



Classic Command Results

- Scrollable text box showing the same command response as a terminal

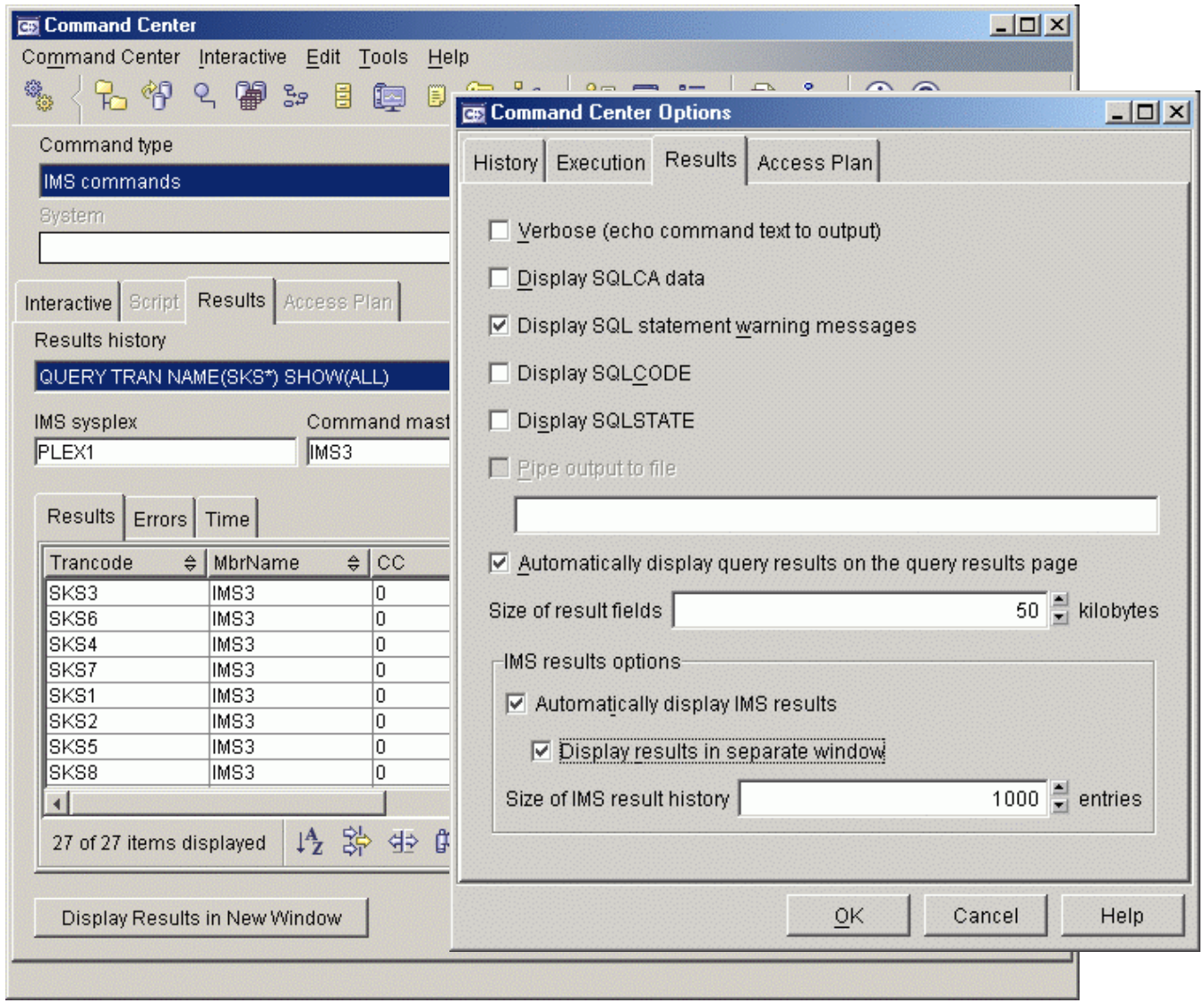
Command Center – Classic Command Results



Command Center Result Options

- Automatically display results
- Display results in a separate results window
- Specify the number of command responses to be saved in the results history

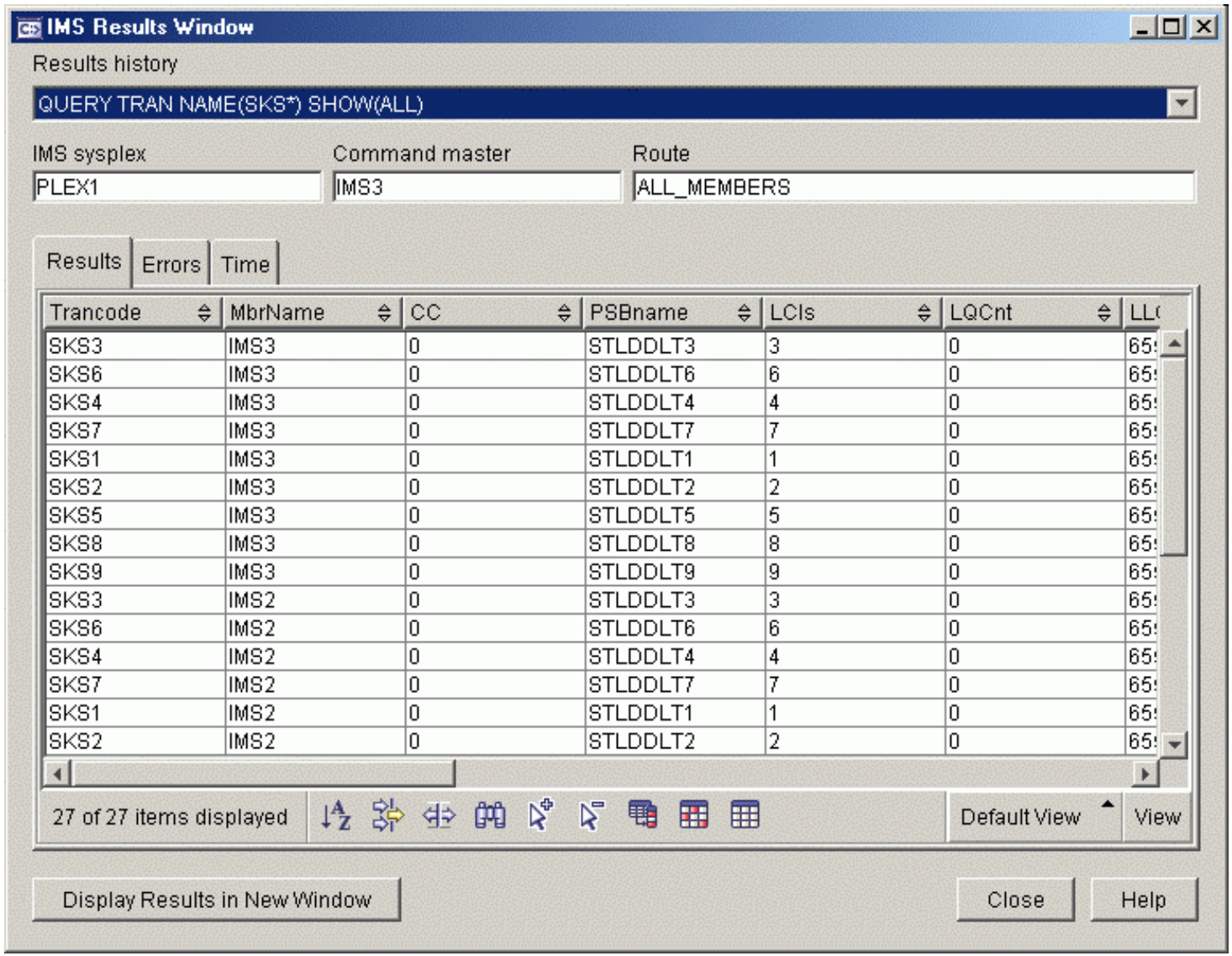
Command Center – Result Options



Separate Results Window

- Separate results window displayed for
  - Results from wizards (except folder queries)
  - Command Center when option selected
  - Display Results in New Window button
- Multiple windows can be open simultaneously
- Enables side-by-side comparisons

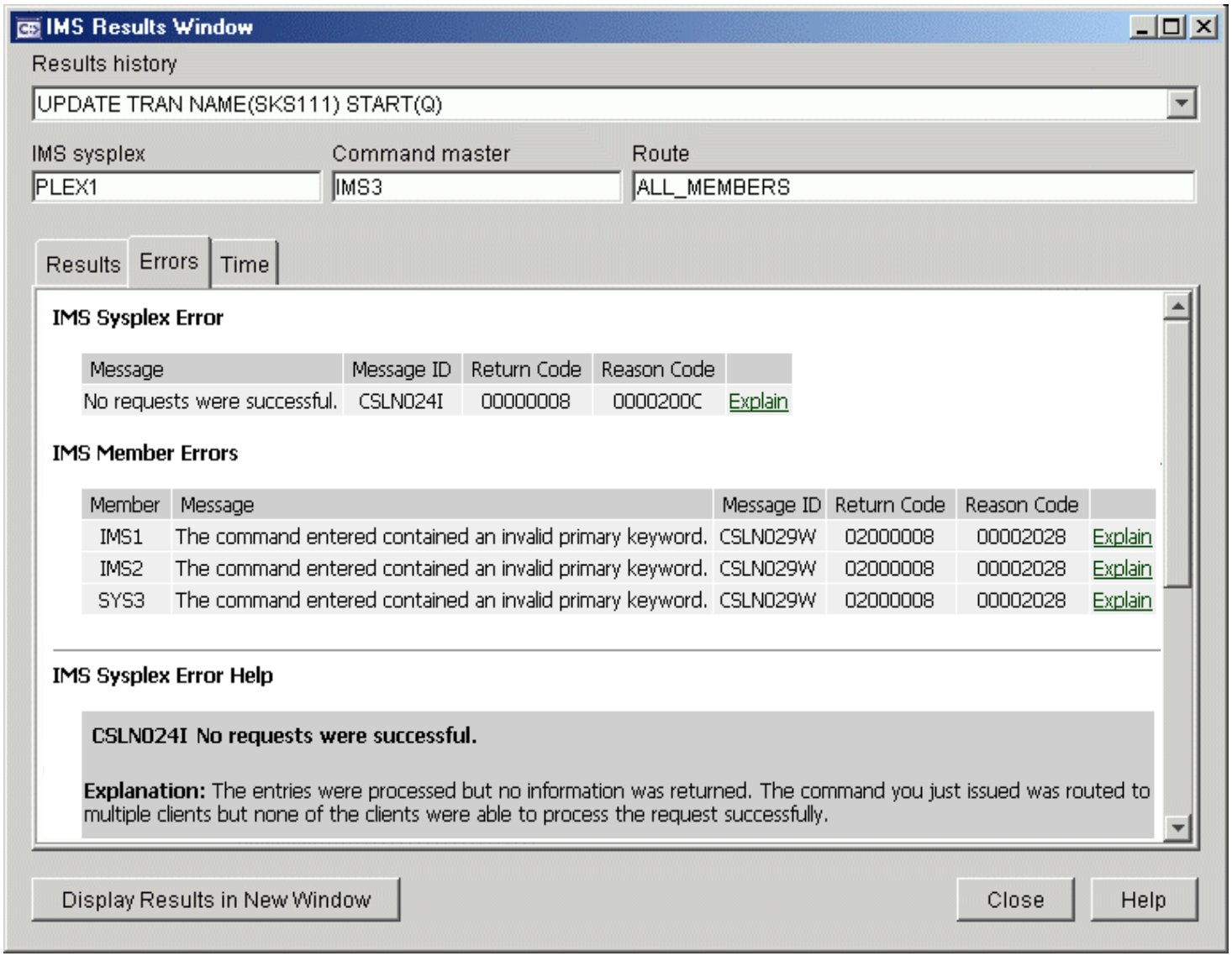
Separate Results Window



Results Errors

- Displays return and reason codes for IMSplex and each member
- If no errors, all return and reason codes are 0
- If errors occurred, Error tab displays first
- Displays message ID, text, and help from Messages and Codes book

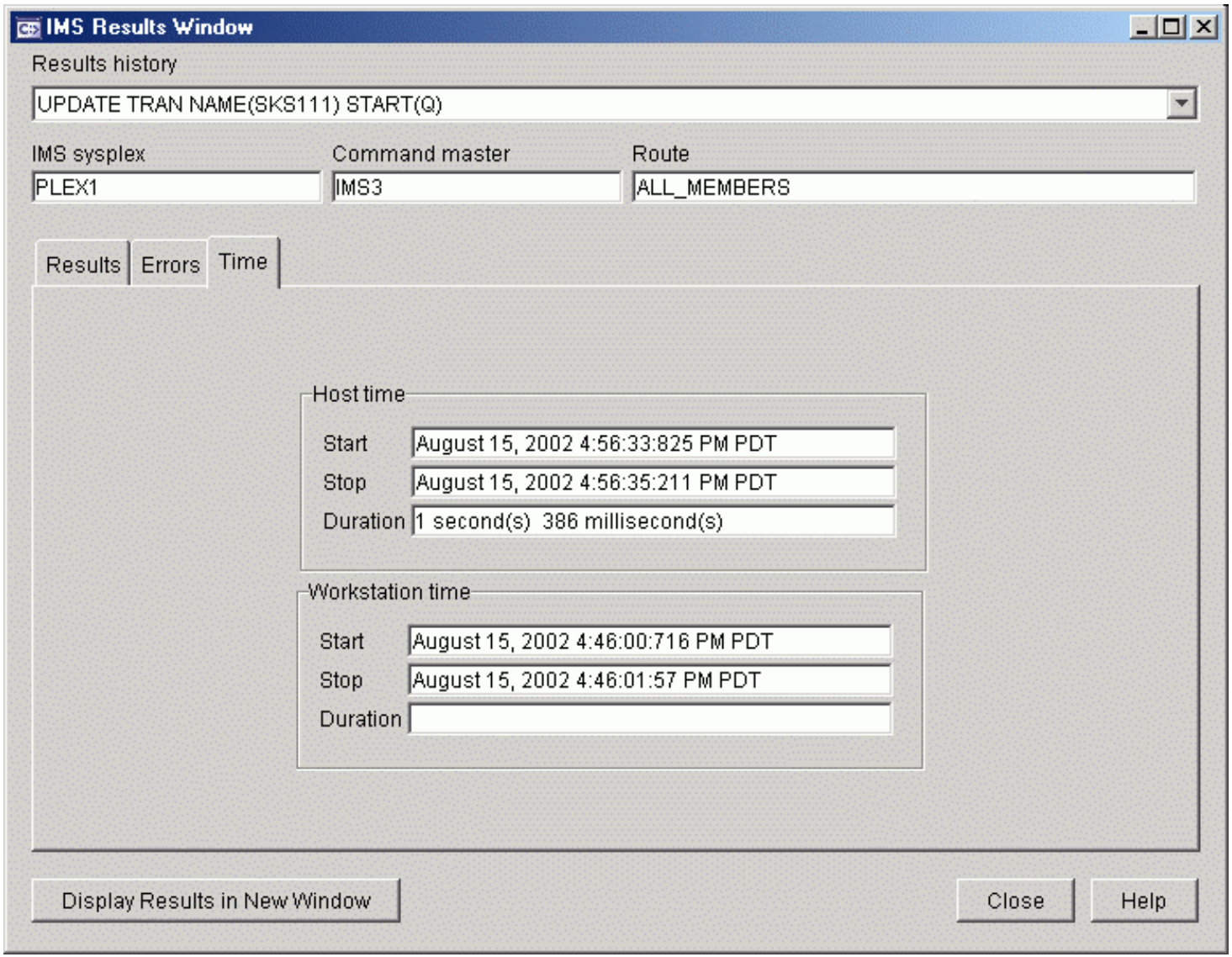
Results Window – Error Messages



Command Time

- Host start time, stop time, and duration
- Workstation start time, stop time, and duration

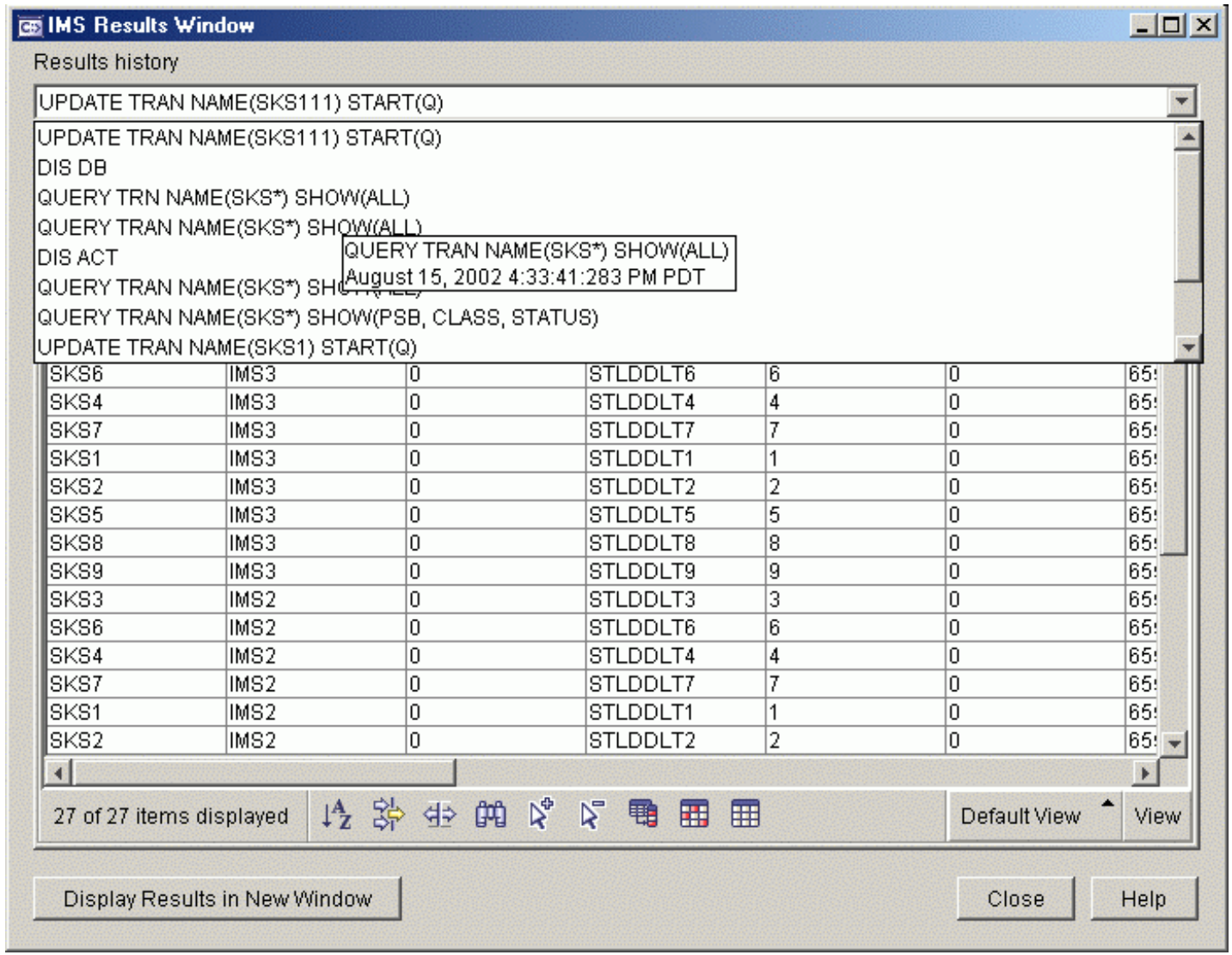
Results Window – Command Time



Results History

- Lists up to 1000 previous results by command
- Results include all data, errors, time stamps
- Most recent results at the top
- Pop-up shows complete command and workstation start time to aid identification

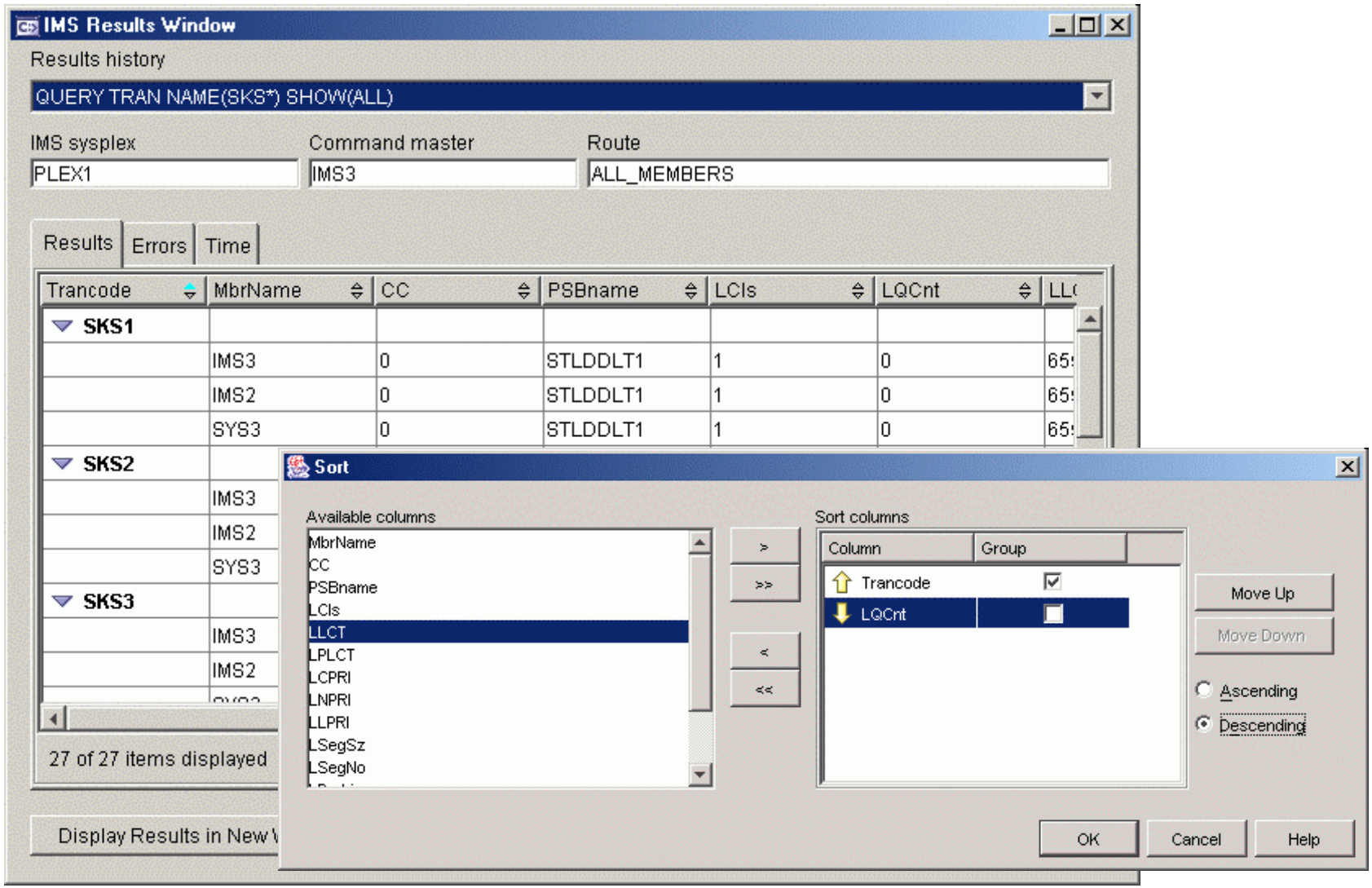
Results Window – Results History



Results Grouping

- Results can be grouped on any column using the Group checkbox in the Sort dialog
- Combines all rows with the same column value into an expandable roll-up row
- Can be grouped on multiple levels

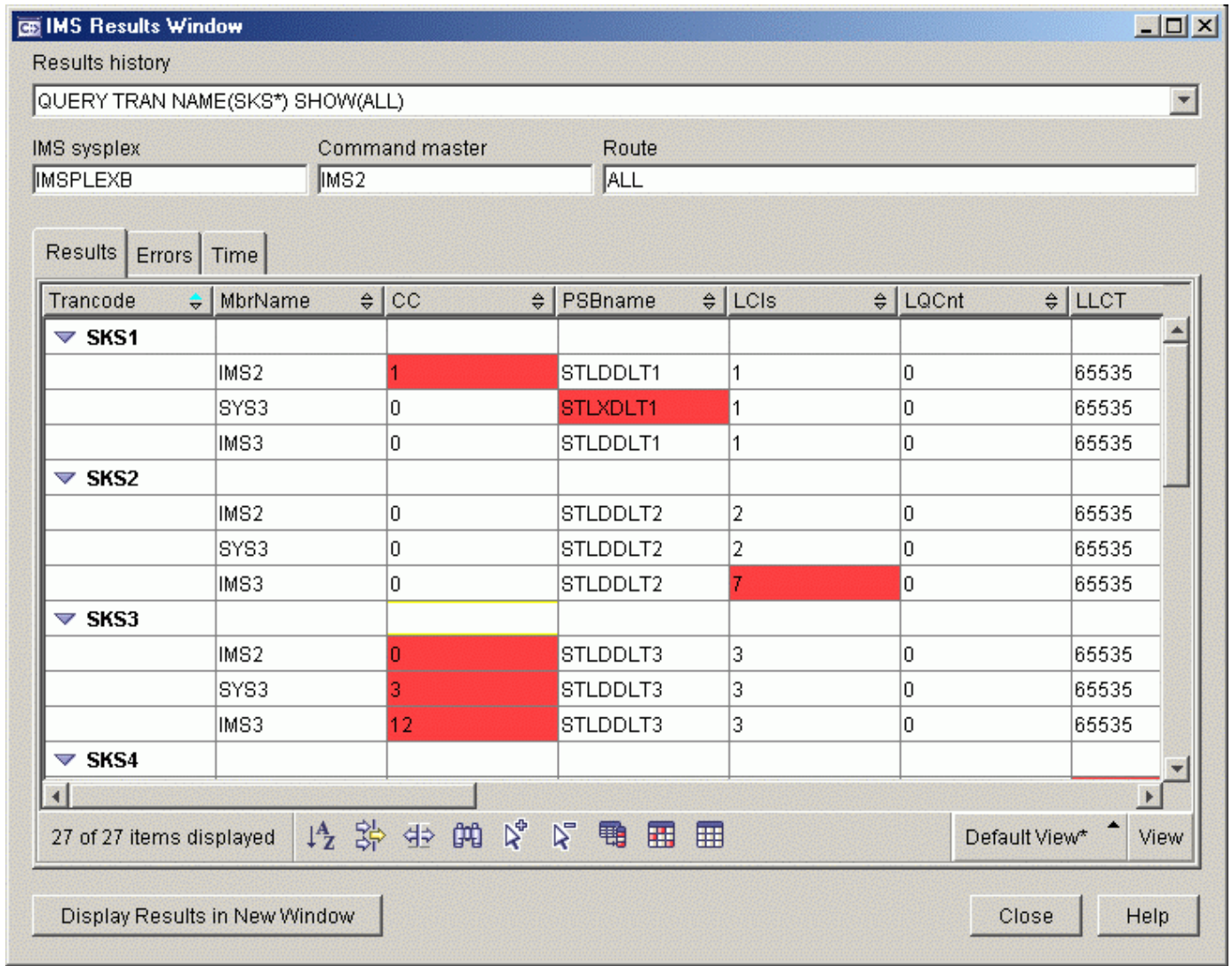
Results Window – Grouping Results



Highlighting Result Differences

- Toolbar buttons
  - Highlight all column differences
  - Highlight selected column differences
  - Clear all highlights
- Groups results by resource name and compares column values across members
- If one cell value is different from the others, that cell is highlighted
- If more than one value differs, all cells in that column for that resource are highlighted

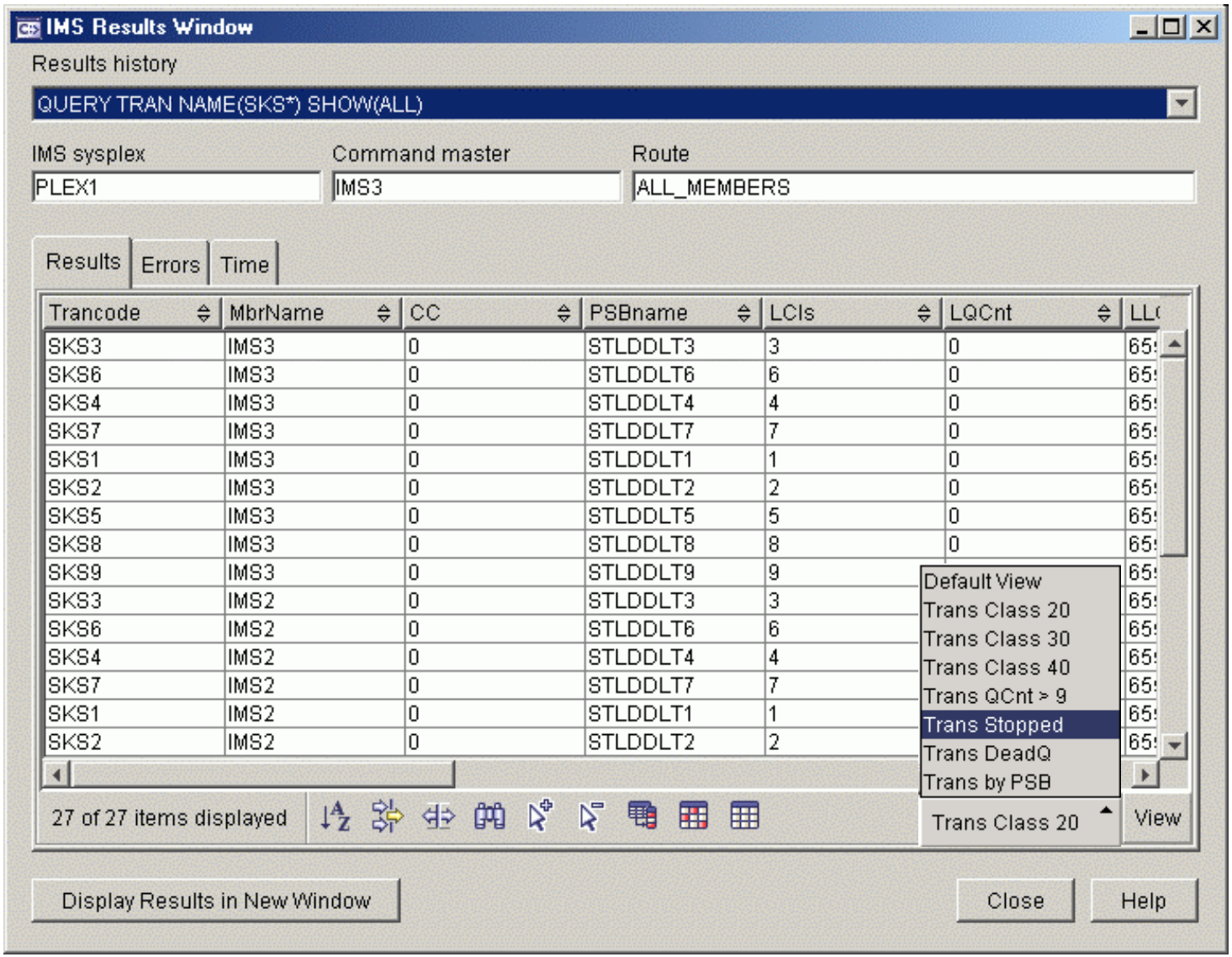
Results Window – Highlighting Differences



Results Window – Saved Views

- Sort, filter, grouping, and column settings can be saved as a ‘view’
- Views can be applied to any results
- User names a view using the View menu
- View pop-up list enables quick switching

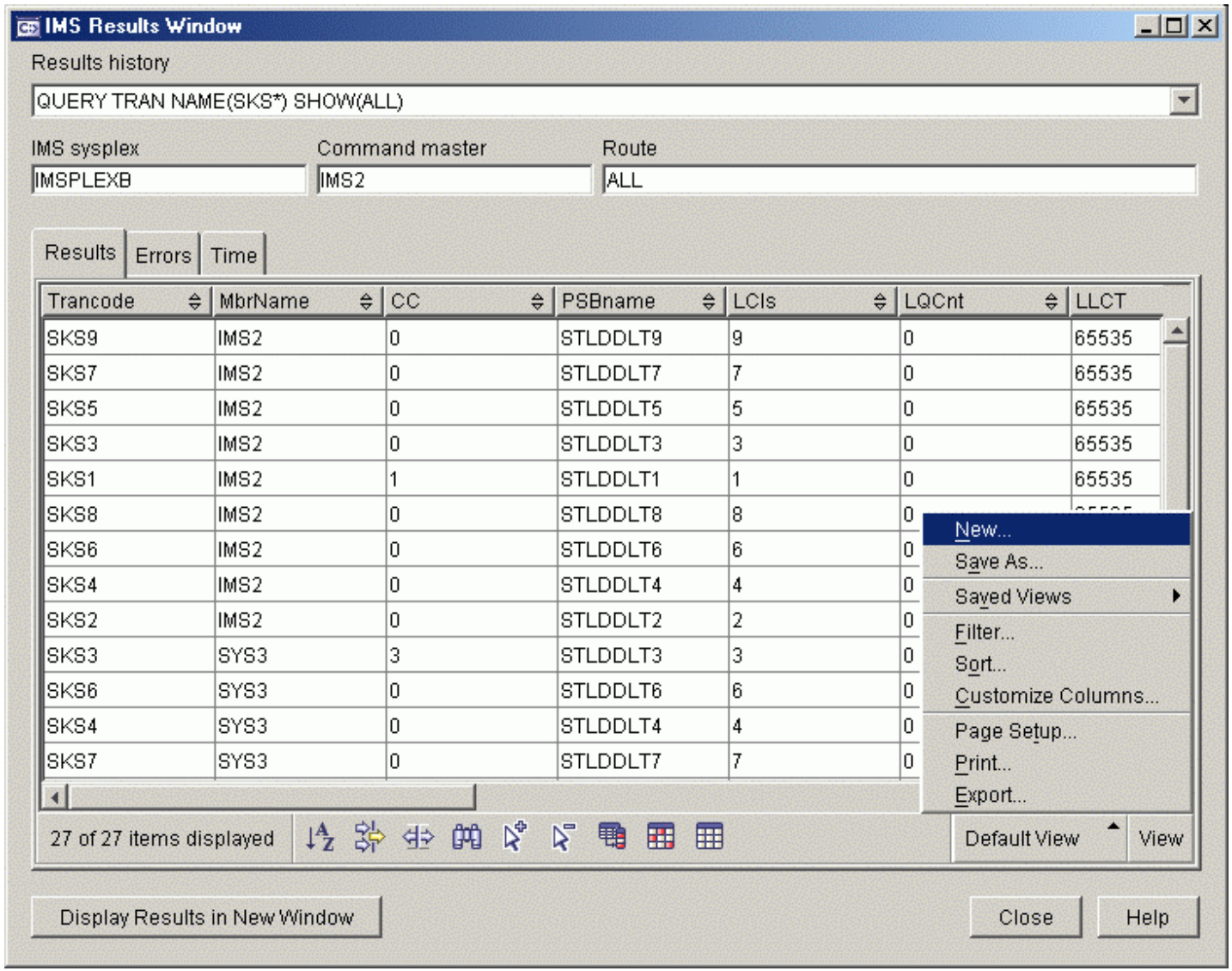
Results Window – Saved Views



Results View Menu

- Enables the naming and saving of views
- Alternative access to the Sort, Filter, Customize Columns dialogs
- Enables print of data as a report
- Enables export to a delimited ASCII file

Results Window – View Menu



Online Help

- Information Center article outlines IMS CC
- HTML Help for all tasks and dialog fields
- Wizard task overviews
- IMS Messages and Codes

Translation Languages

- IMS Control Center user interface and help translated into the following languages
  - Brazilian Portuguese
  - Danish
  - Finnish
  - French
  - German
  - Italian
  - Japanese
  - Korean
  - Norwegian
  - Polish
  - Russian
  - Simplified Chinese
  - Spanish
  - Swedish
  - Traditional Chinese