IBM Director 5.20 for IBM i

Bob Padzieski
Power Systems ATS

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IBM Director 5.20 on IBM i

- Why use IBM Director 5.20 on IBM i?
  - IBM i centric solution
  - Multi-platform capabilities
  - Step to the strategic IBM Systems Director 6.1
- What can IBM Director do for me?
  - Groups
  - Tasks
  - Event access plans
  - Administration

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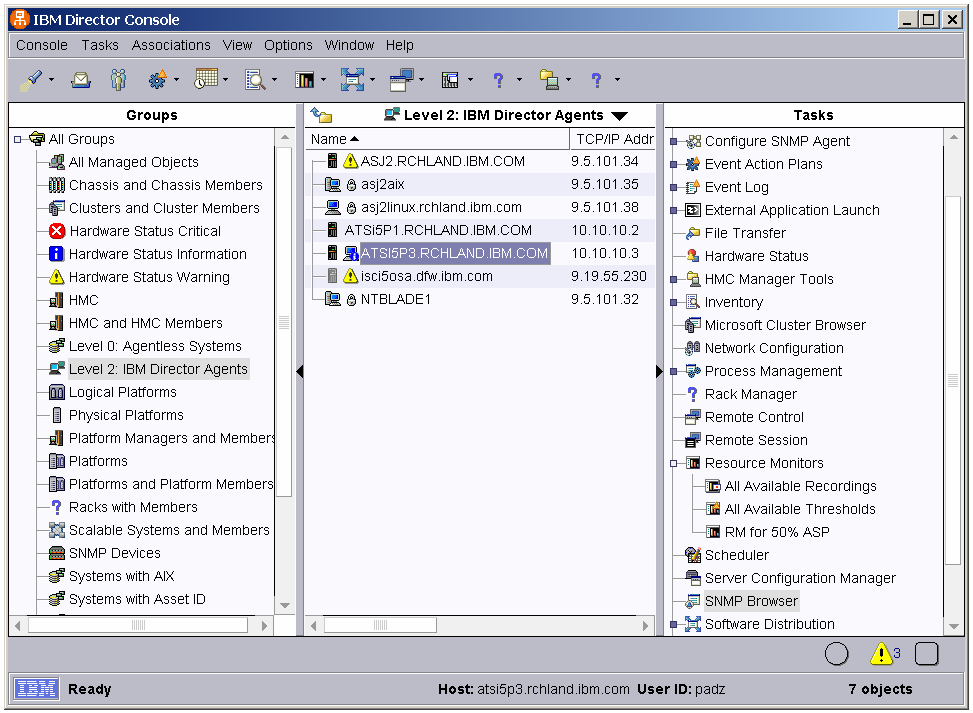
IBM Director 5.20

An IBM Systems Director foundation element

- Cross platform management product
- Three tier architecture
  - Server
  - Console
  - Level 0,1 and 2 endpoints
- High-function base plus extensions
- Customizable event action plans
- Upward integration
  - Tivoli®, Tivoli Netcool®, CA, HP, MS, SMS, MOM, BMC, NetIQ
- Included with IBM servers



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IBM Director 5.20 Groups

- Static groups
  - Manually add / remove systems
  - Administrative / functional / geographical
- Dynamic groups
  - Automatically added when discoved
  - System type / properties
- Asset ID properties
  - Extend inventory information with business details

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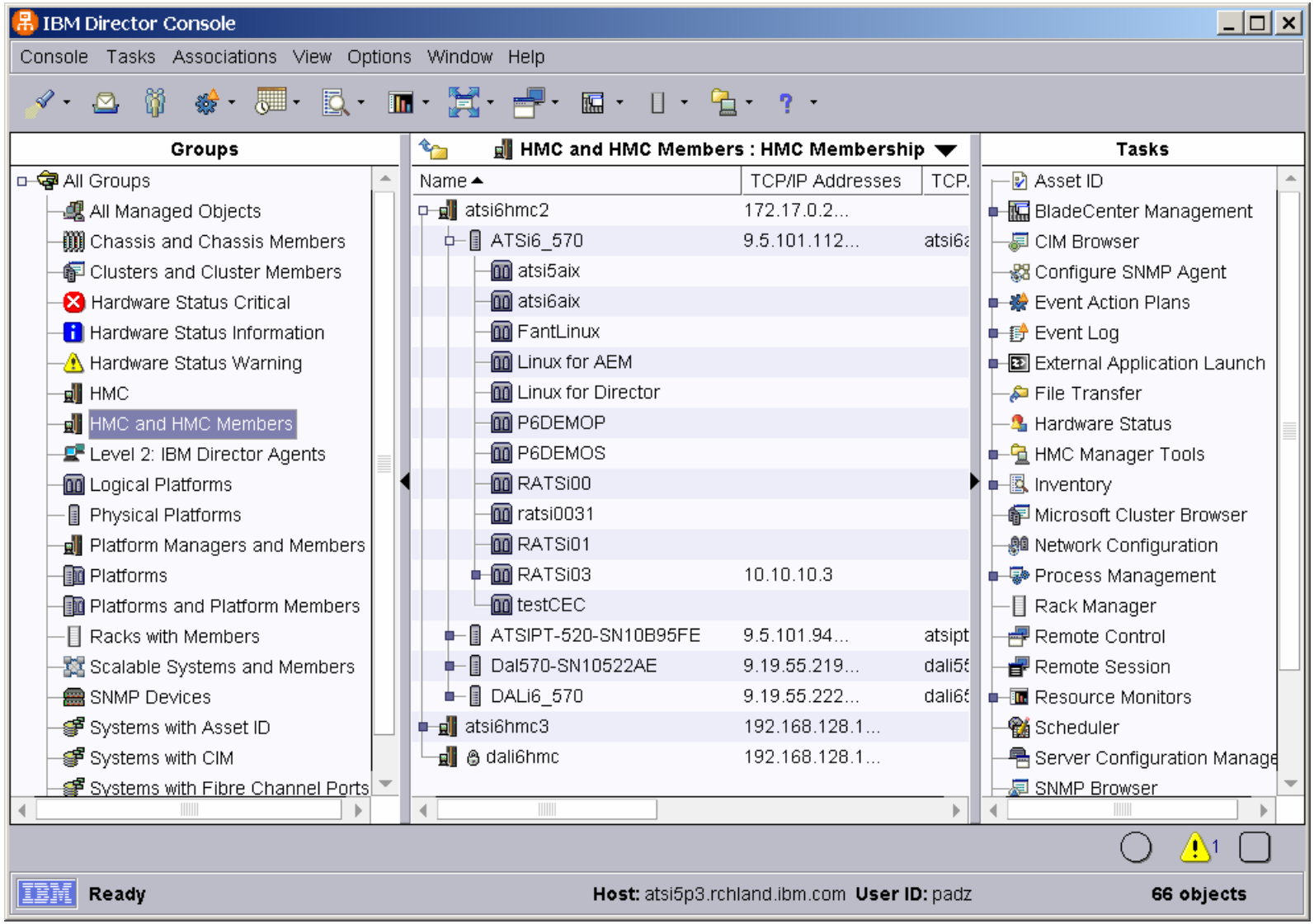

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Notes

- Apply tasks to endpoints or groups of end points
- Some groups have members member structured, e.g.:
- HMC
  - Systems
    - Partitions
      - Director Agent if installed on the partions

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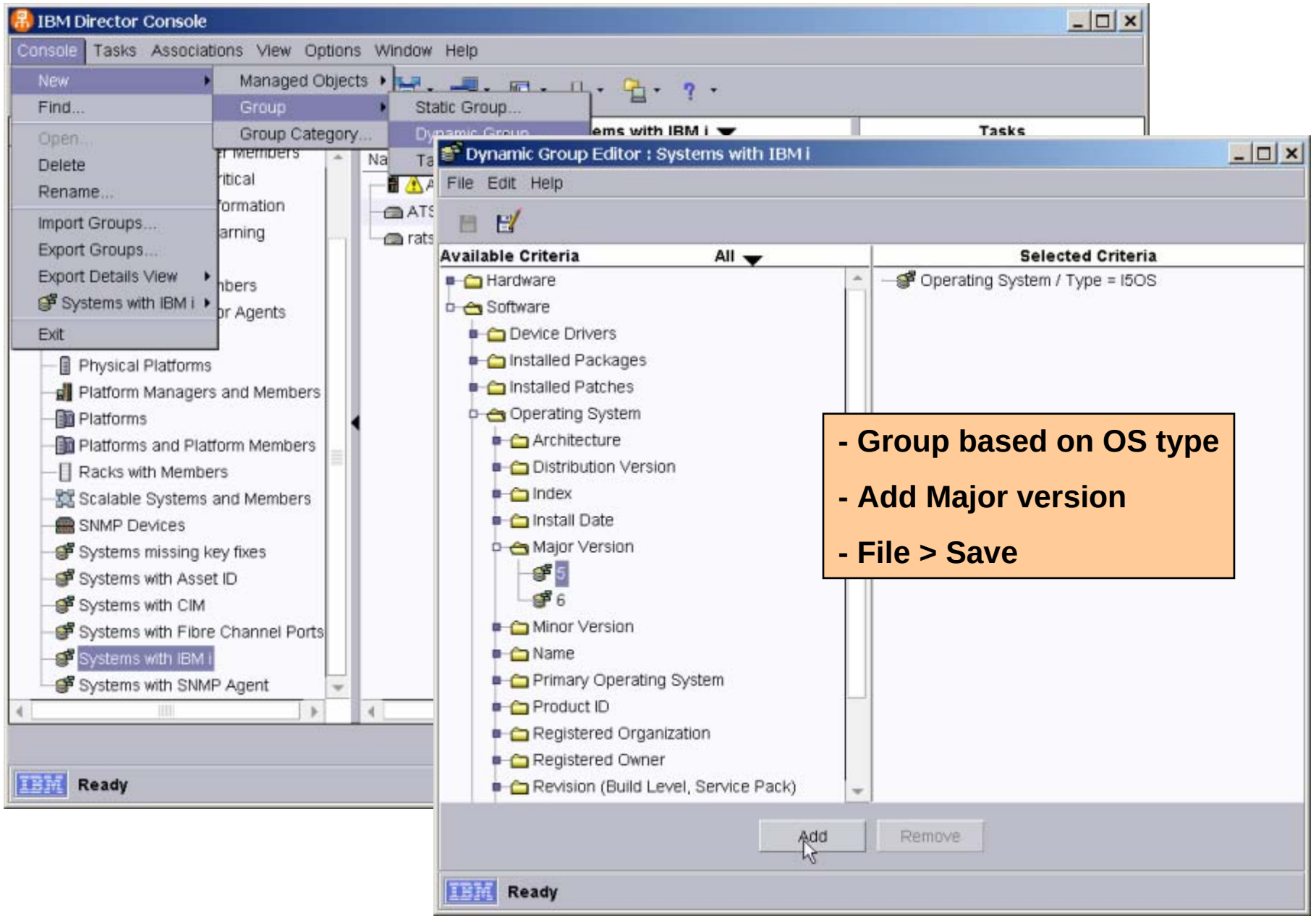

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Notes

- “Systems with IBM i” is a dynamic group with the selection criteria “Operating System / Type = i5/OS”
- Can add additional criteria such as major release
- Save to update current group
- Save as to create new group

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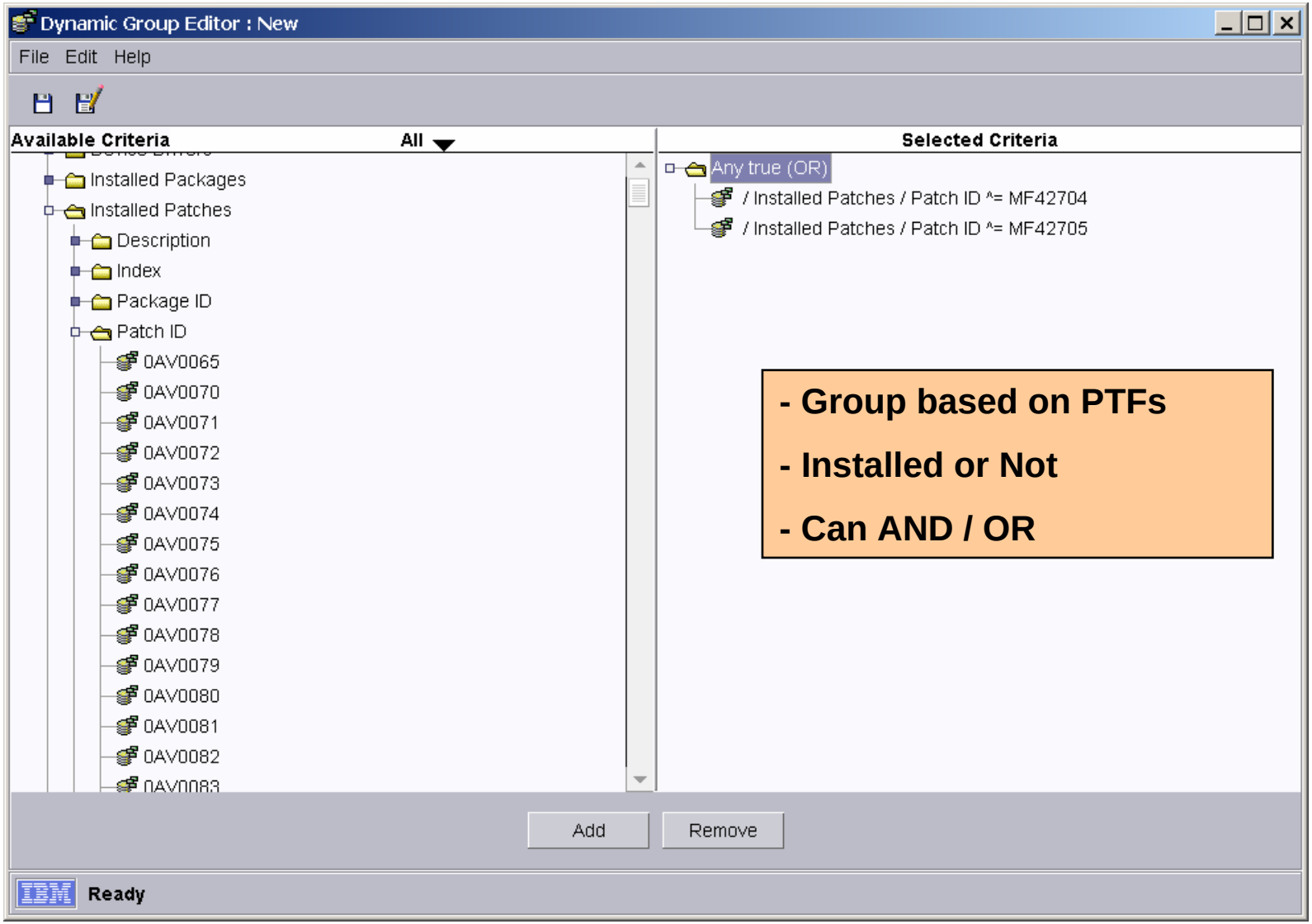

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Notes

- You can use dymamic groups to track systems that are missing fixes
- Can AND, OR and Negate criteria

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Asset id – Asset Tracking Information

- Serialization - serial numbering for system and associated components
- System - basic system information (name, OS, MAC address, and so on)
- User information - name, phone, location, department, position
- Lease - start, end, term, amount, lessor
- Asset - purchase date, inventory date, asset number
- Personalization - free form fields for data specific to customer environment
- Warranty - duration, cost, end date

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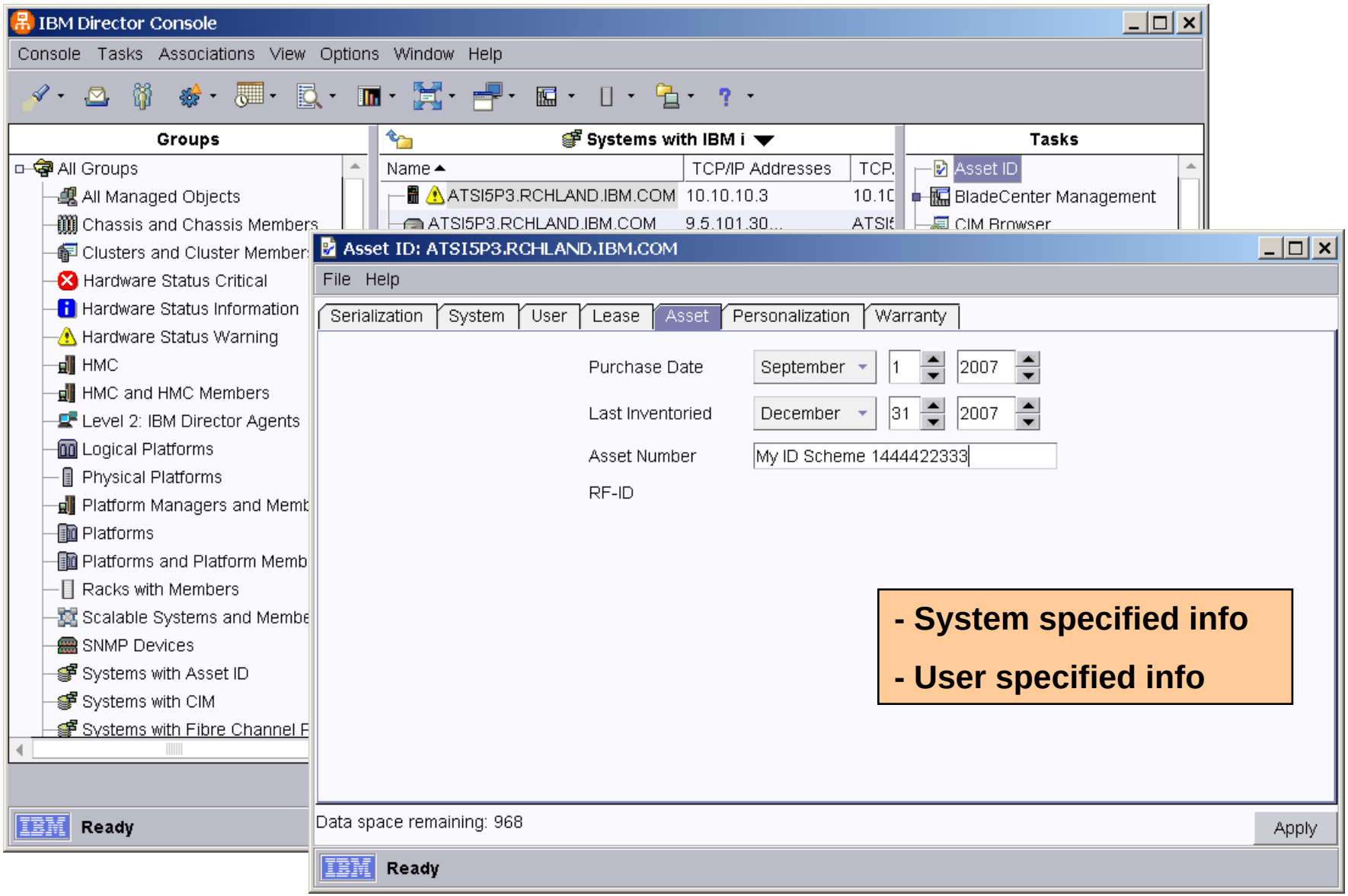

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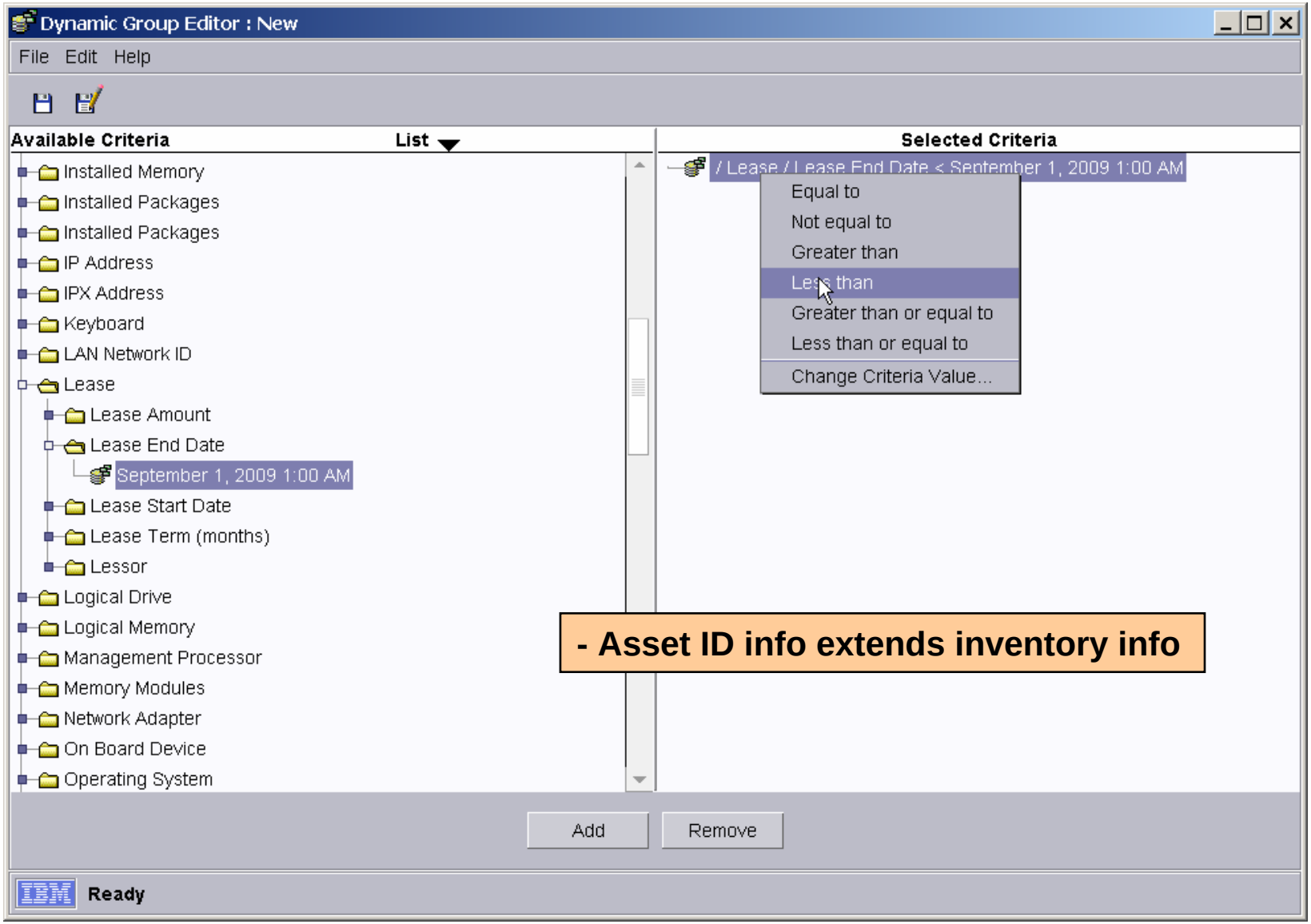

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Inventory and Scheduling

- Calendar
- Collect inventory
- View Inventory

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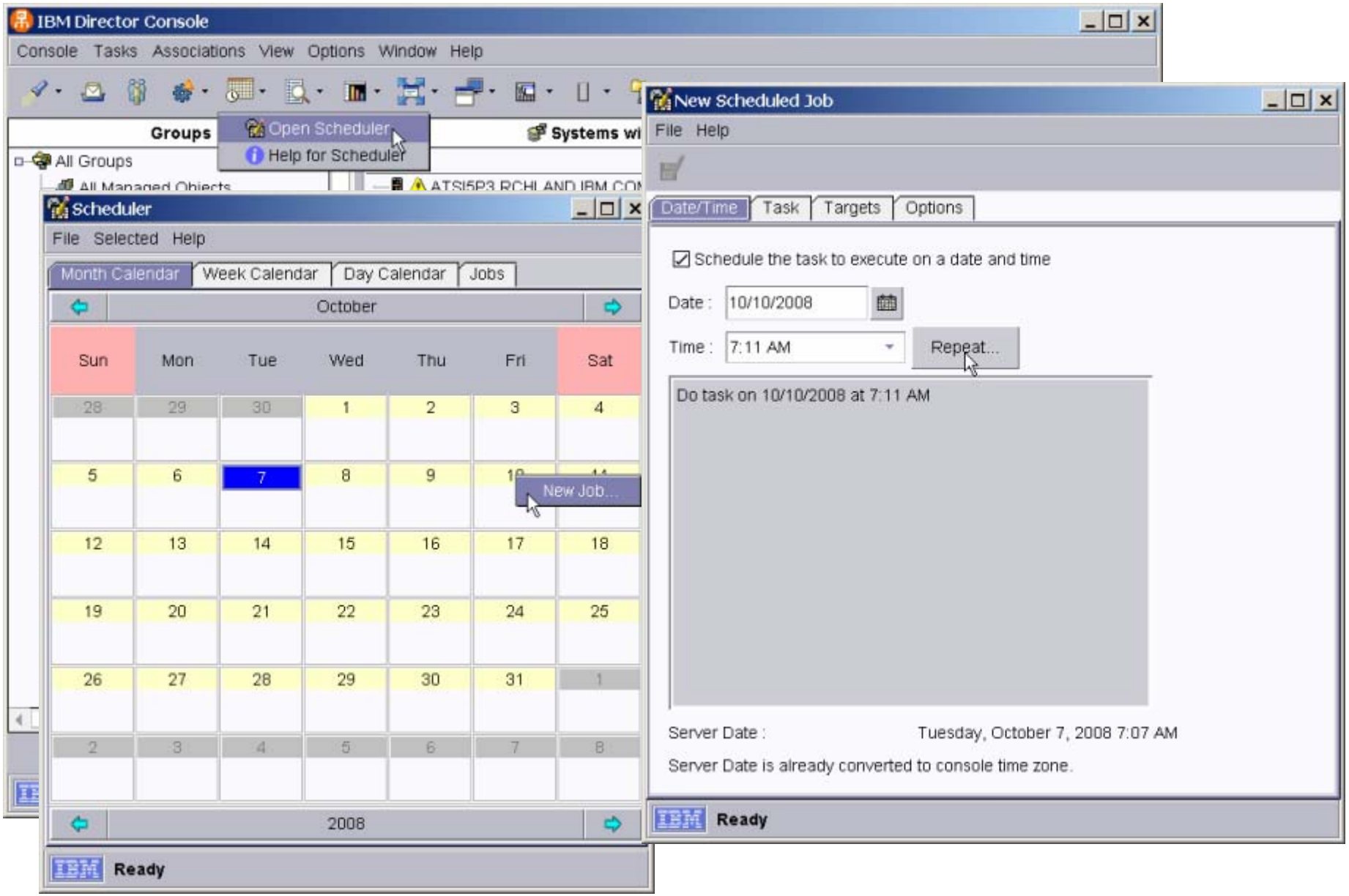

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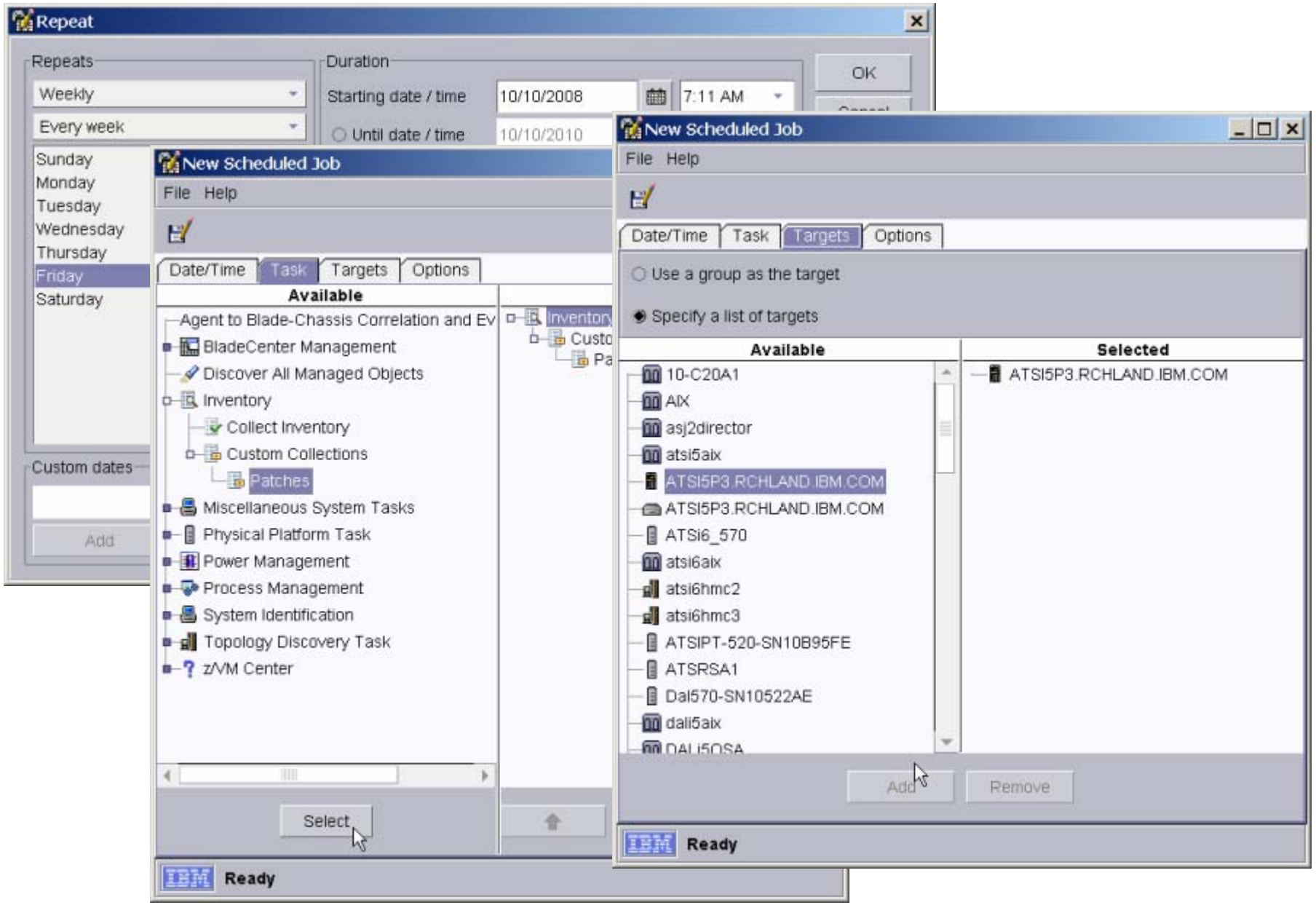

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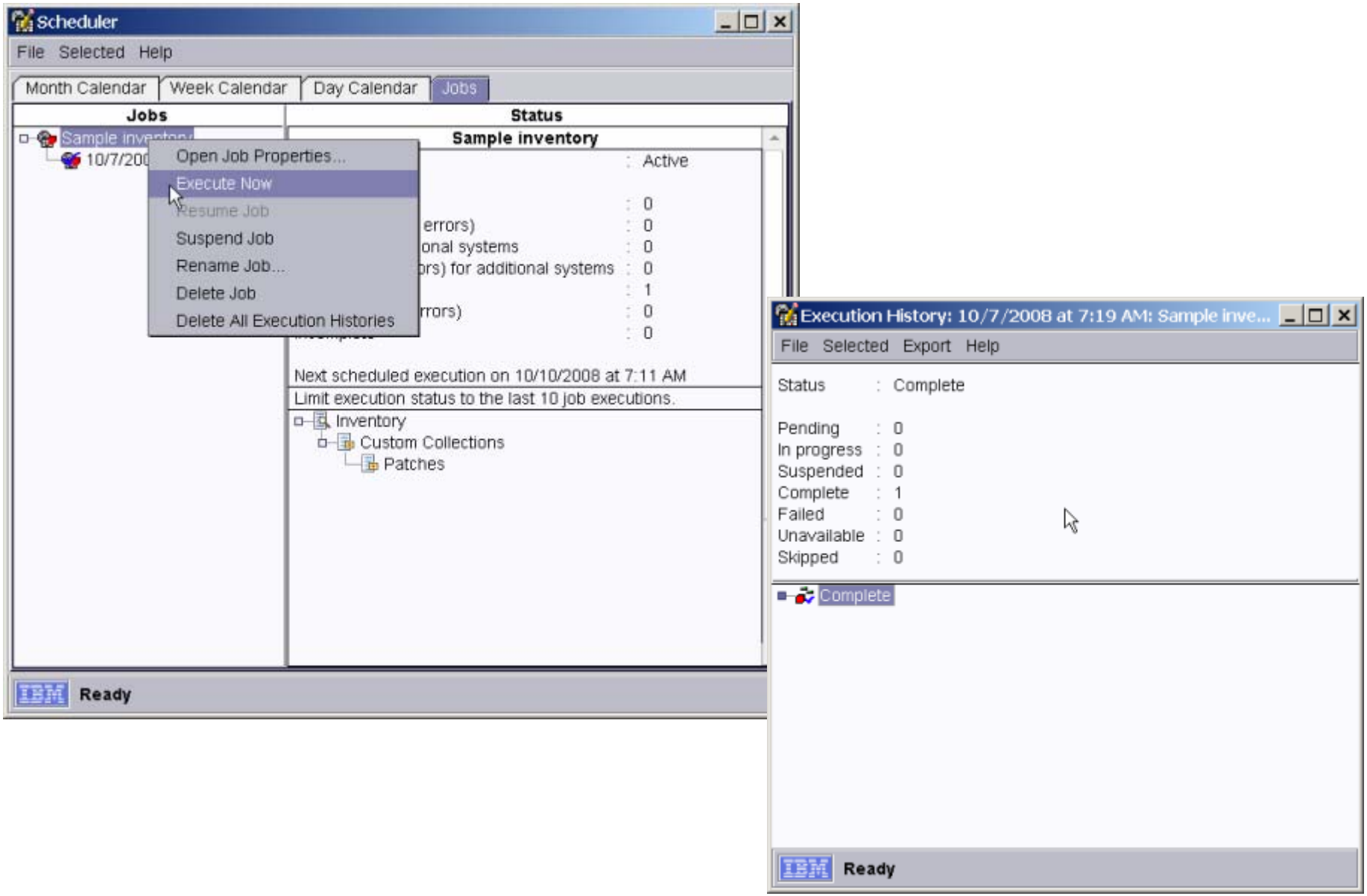

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Notes

- Launch calendar from Scheduler Icon
- Select monthly / weekly / daily view
- Alternate click to add a new task
- Define repetition, tasks and targets and options
- Jobs tab shows list of scheduled tasks and execution history

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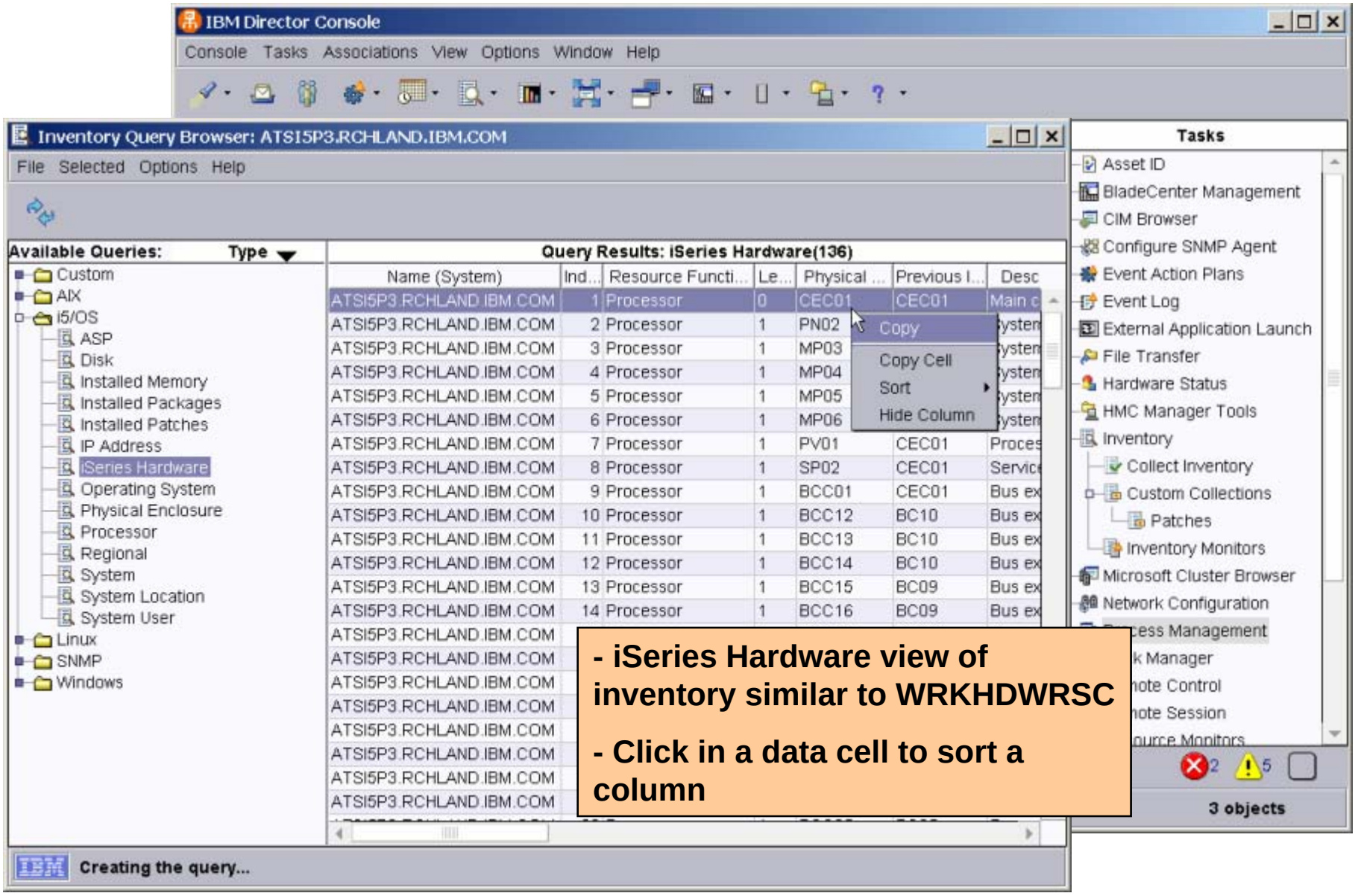

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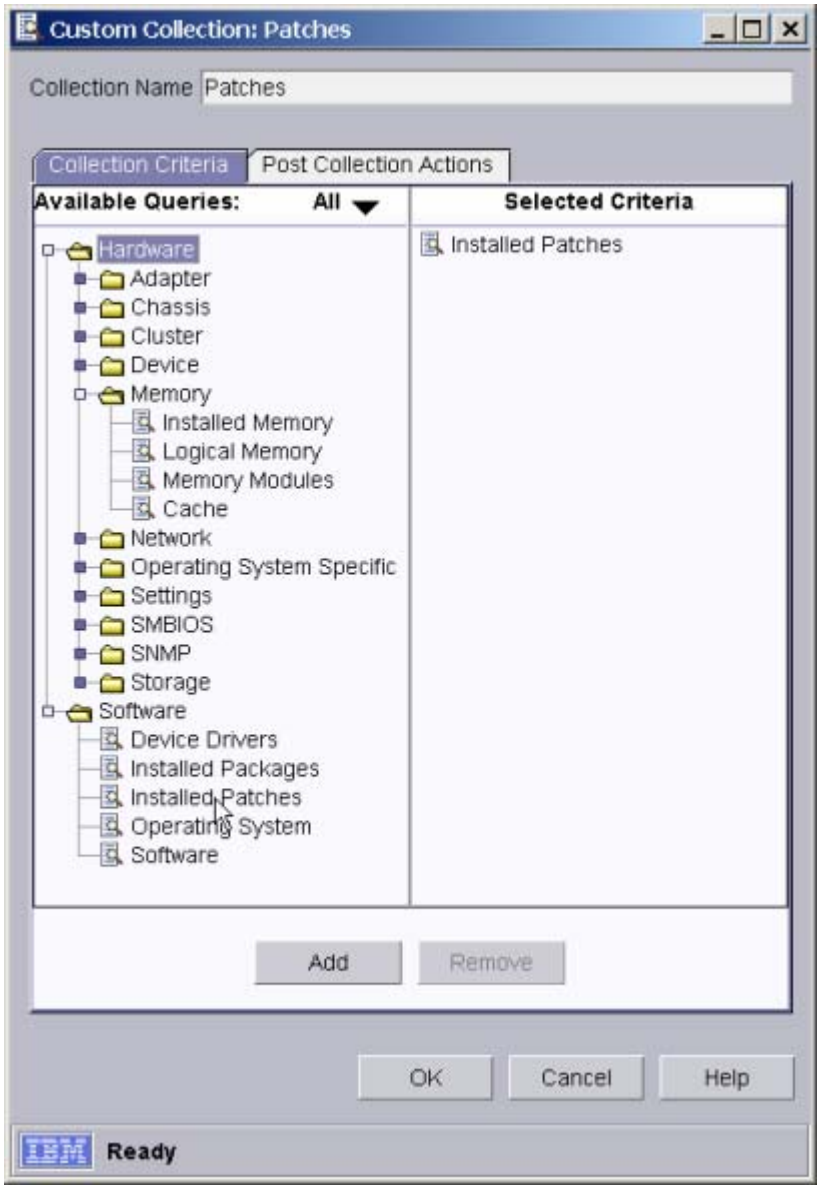
Inventory

- Customizable collections
- Types
  - List, Type, Basic, All
- Exportable
  - .csv, .xml, .html



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Resources and Events

- Hardware status and management
- General event status
- Resource Monitors
- Event action plans

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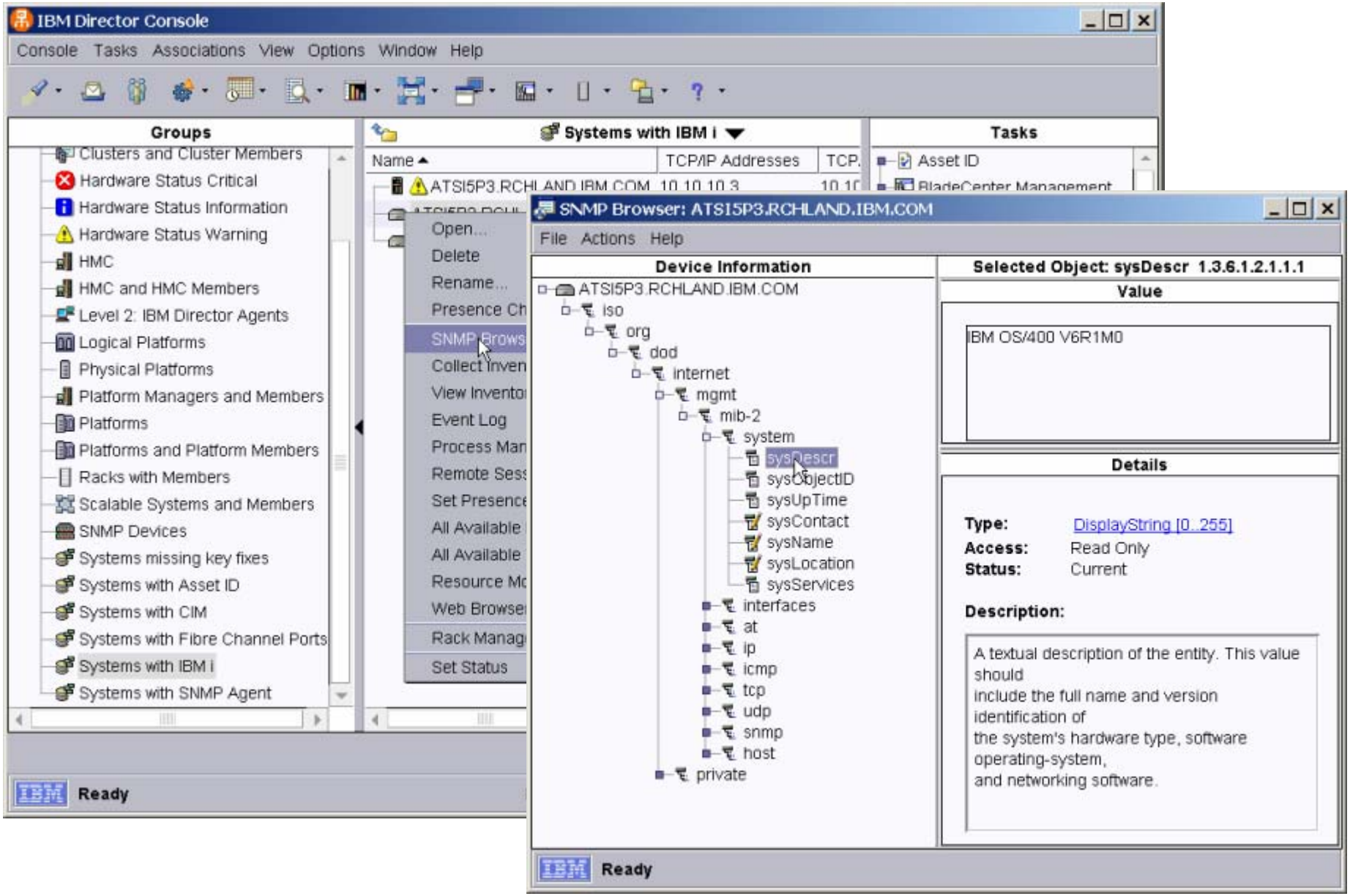

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Notes

- Two views of same endpoint discover on different protocols
  - SNMP
  - Director agent
- Different available functions based on discovery type

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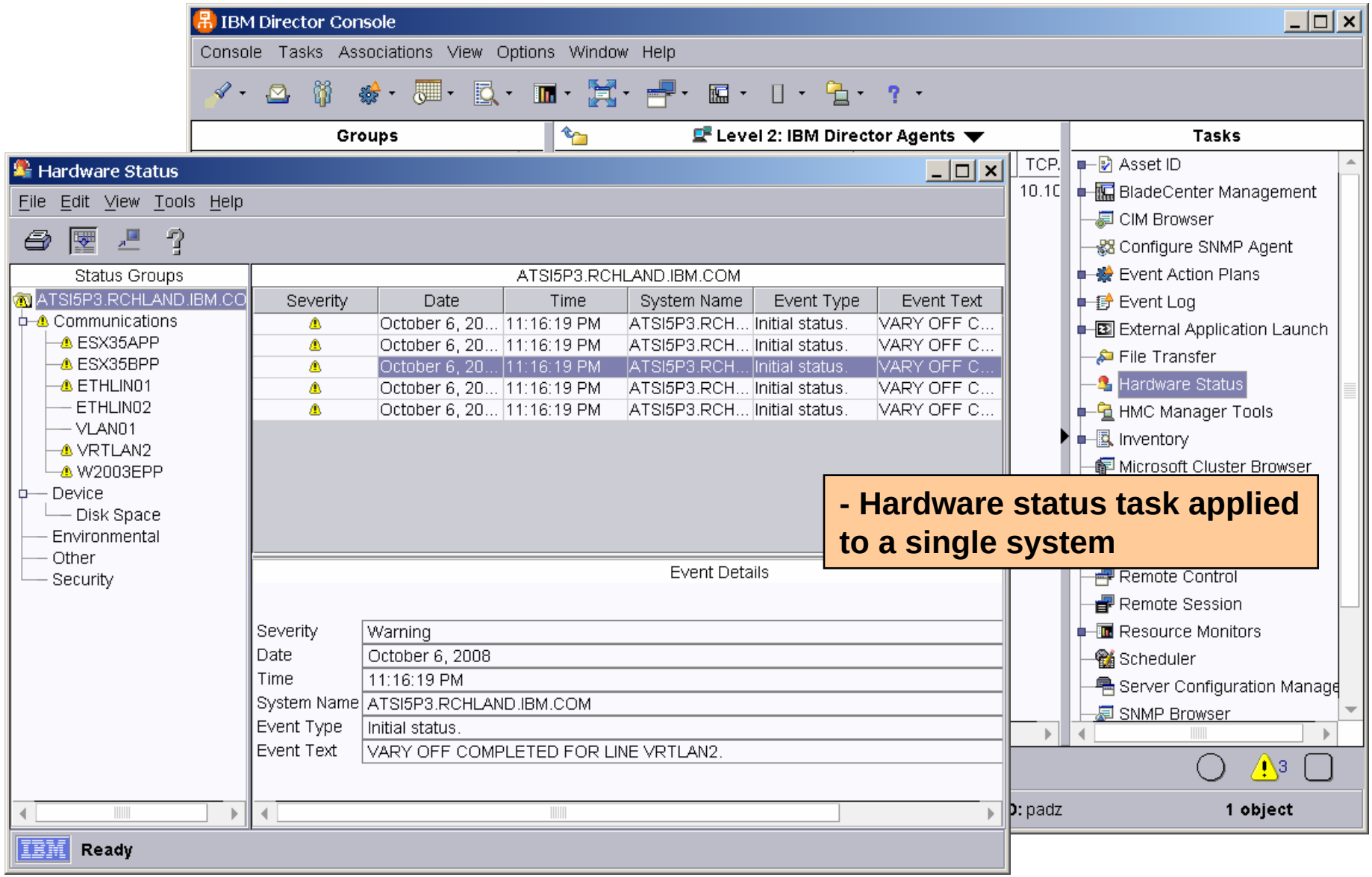

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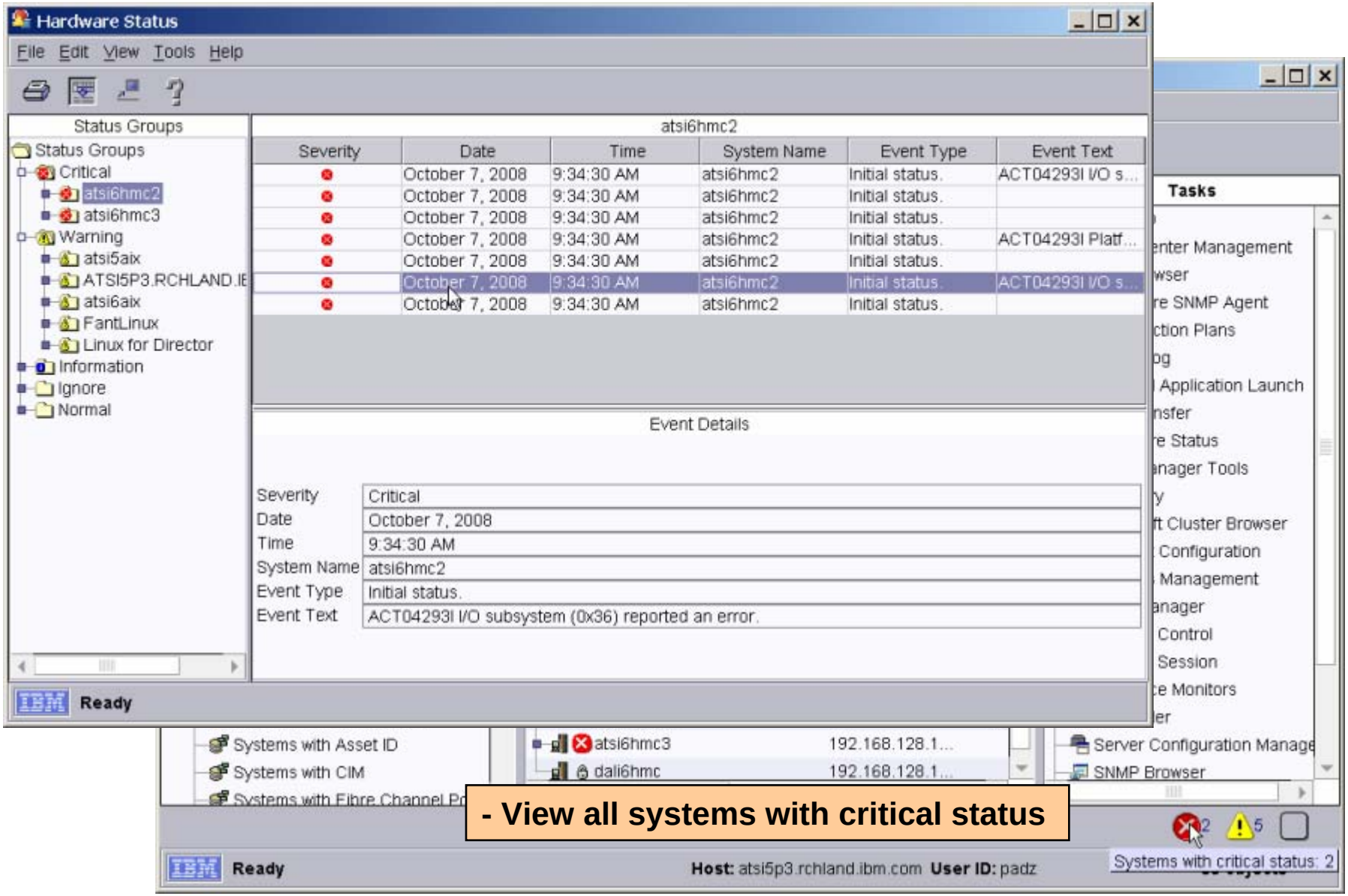

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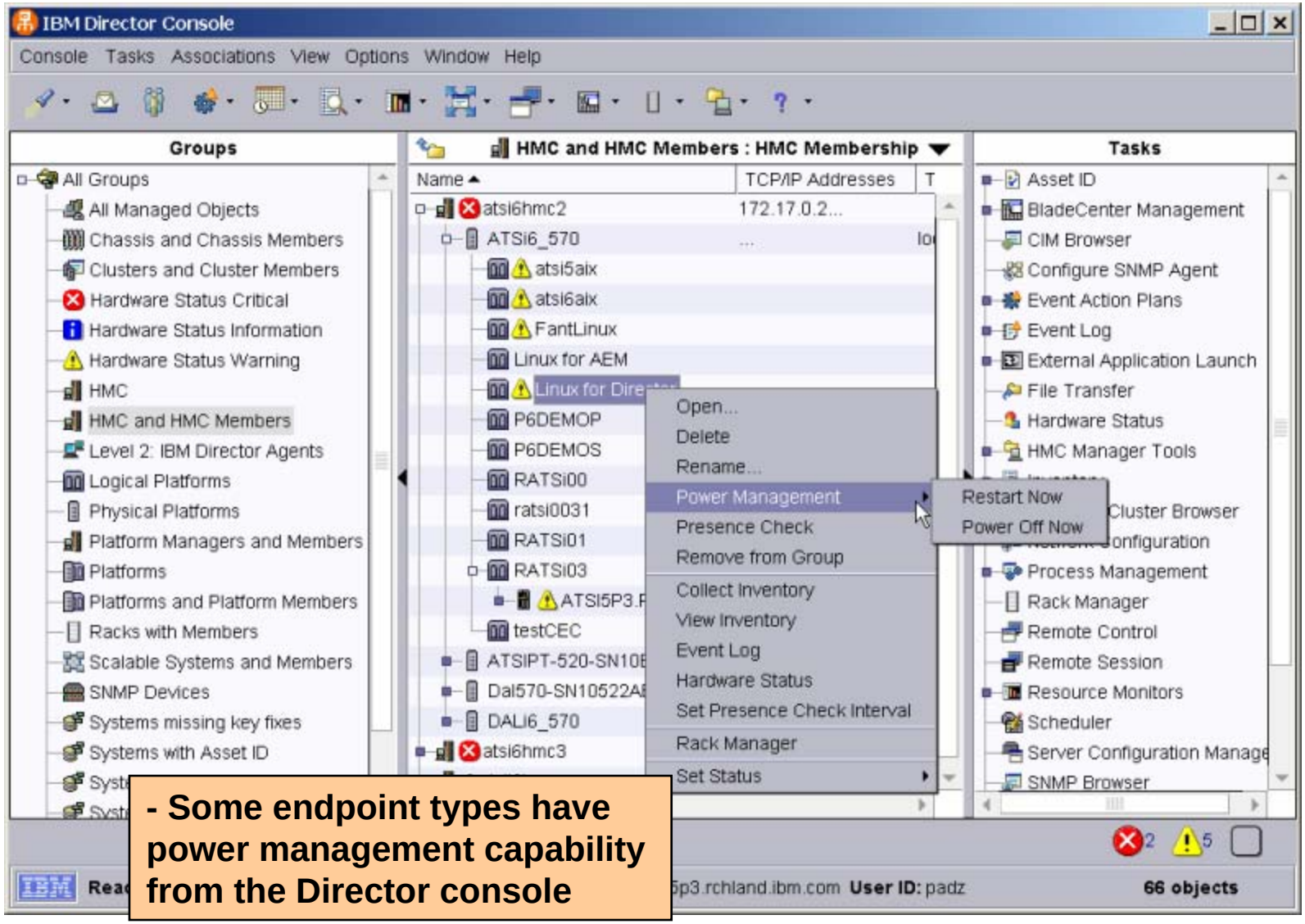

- Some endpoint types have power management capability from the Director console

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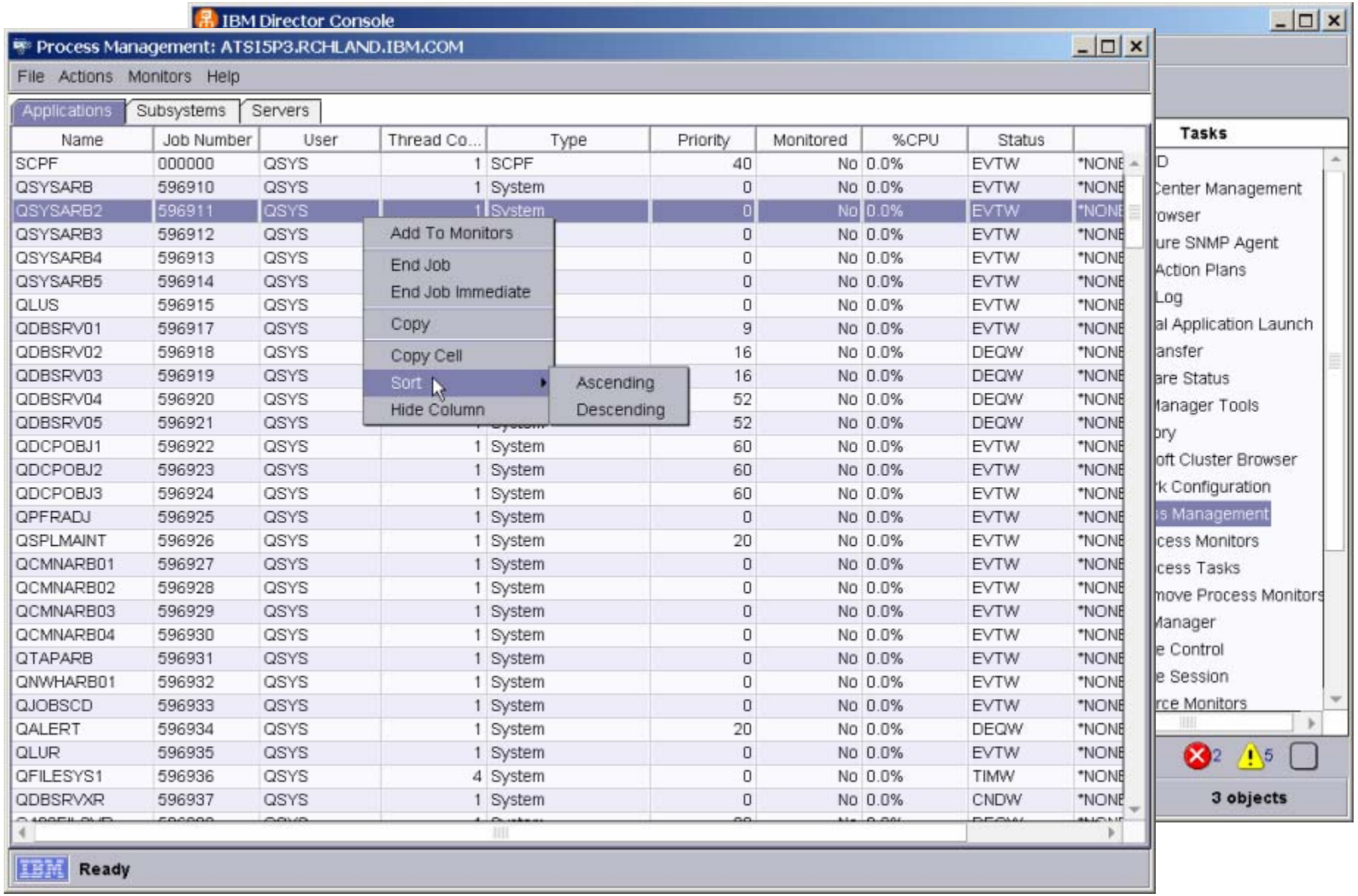

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Notes

- Applying process management to an endpoint results in specific behavior
  - Window – Task Manager process list
  - i5/OS – WRKACTJOB
- Work with jobs, subsystems and server jobs
- Create monitors for process by name
  - Start / end / file
  - Generate a Director event

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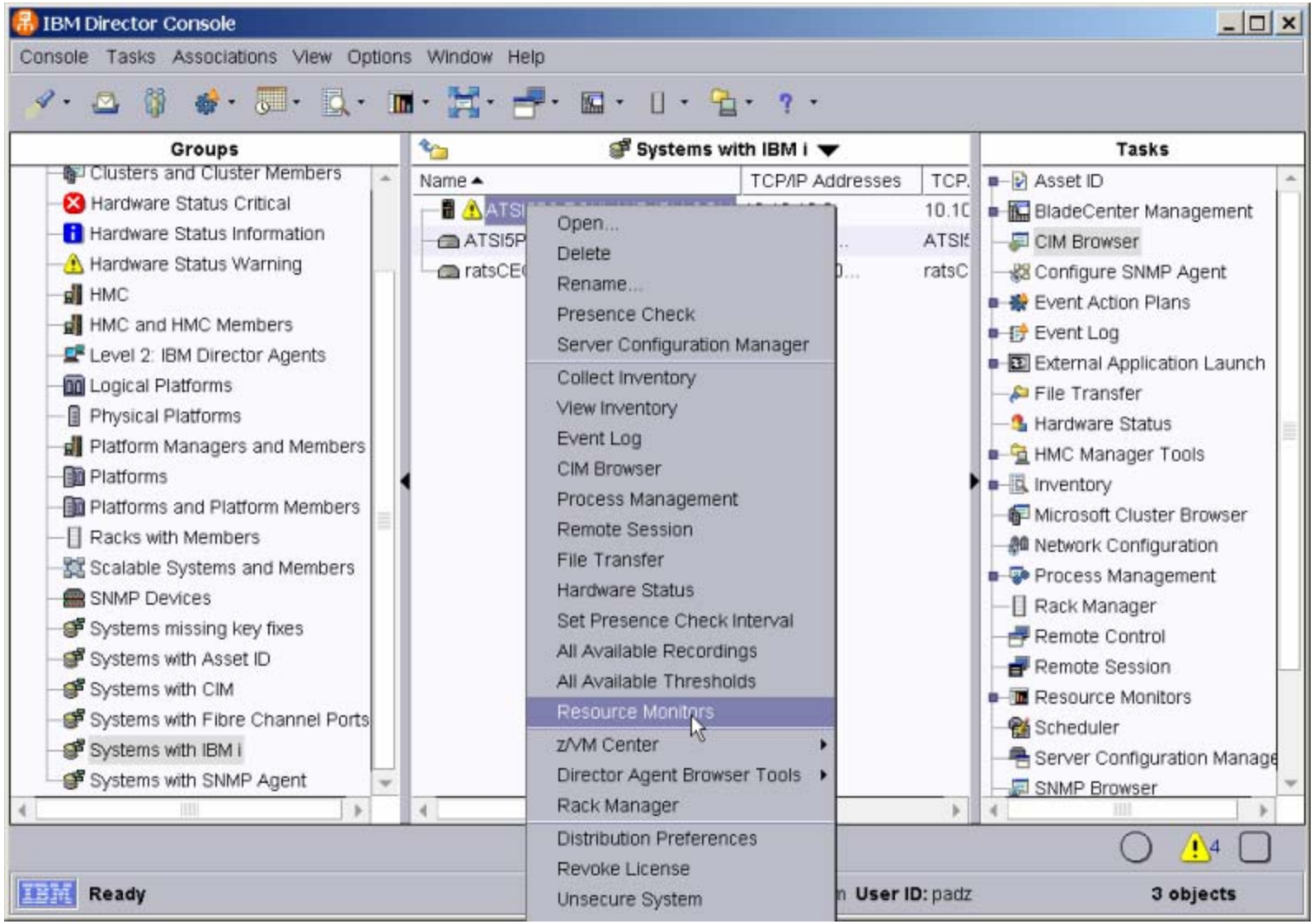

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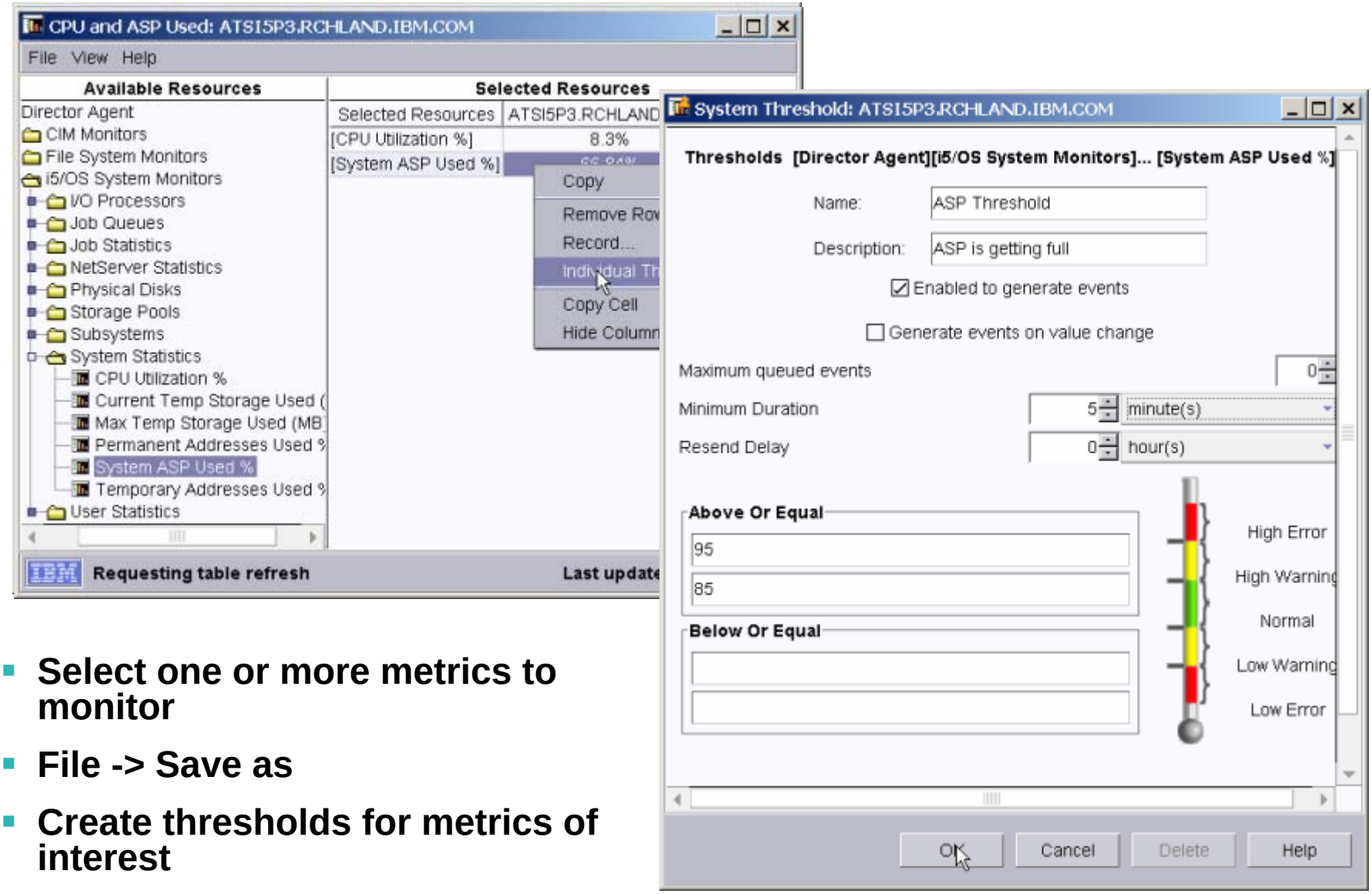

- **Select one or more metrics to monitor**
- **File -> Save as**
- **Create thresholds for metrics of interest**

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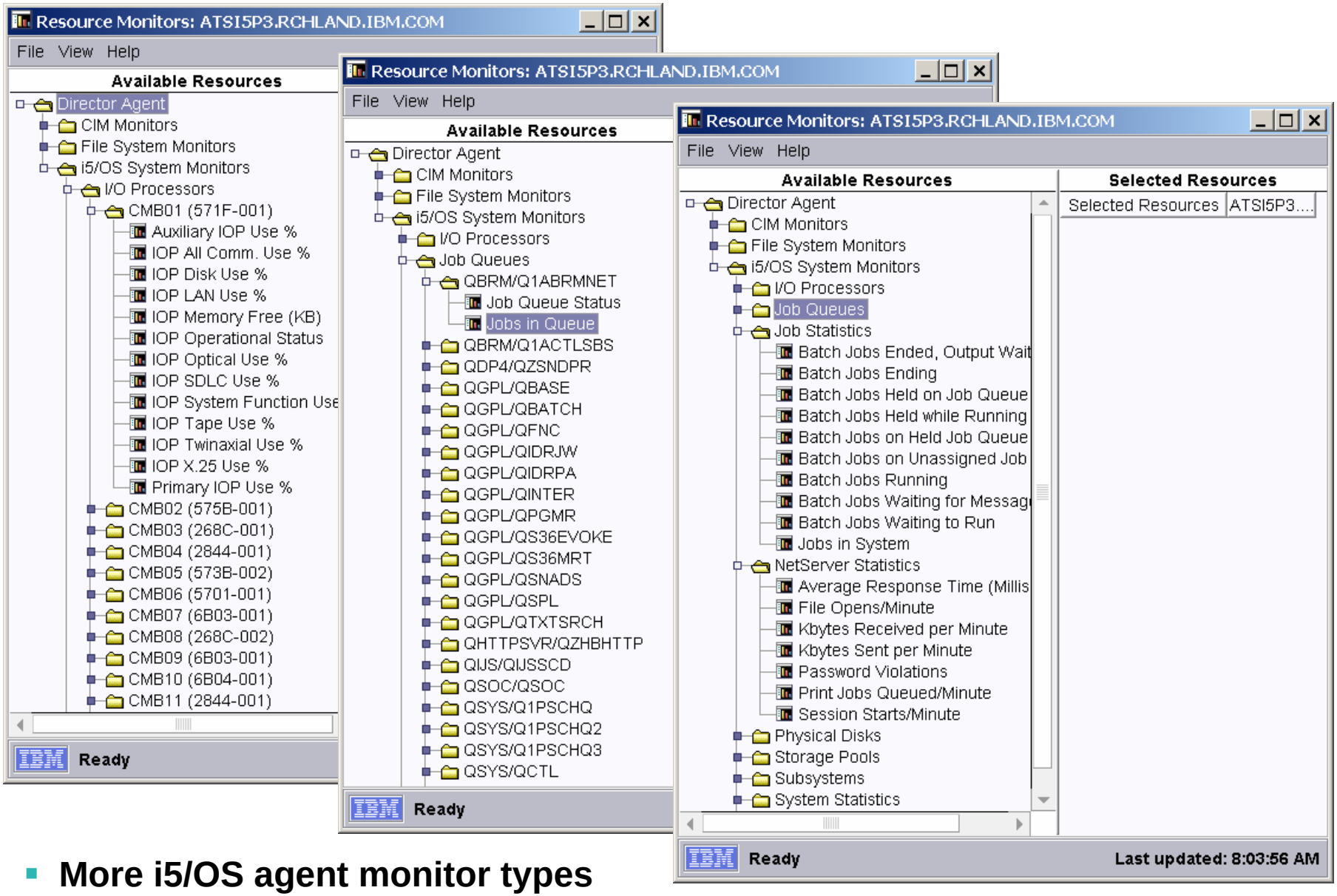

- **More i5/OS agent monitor types**

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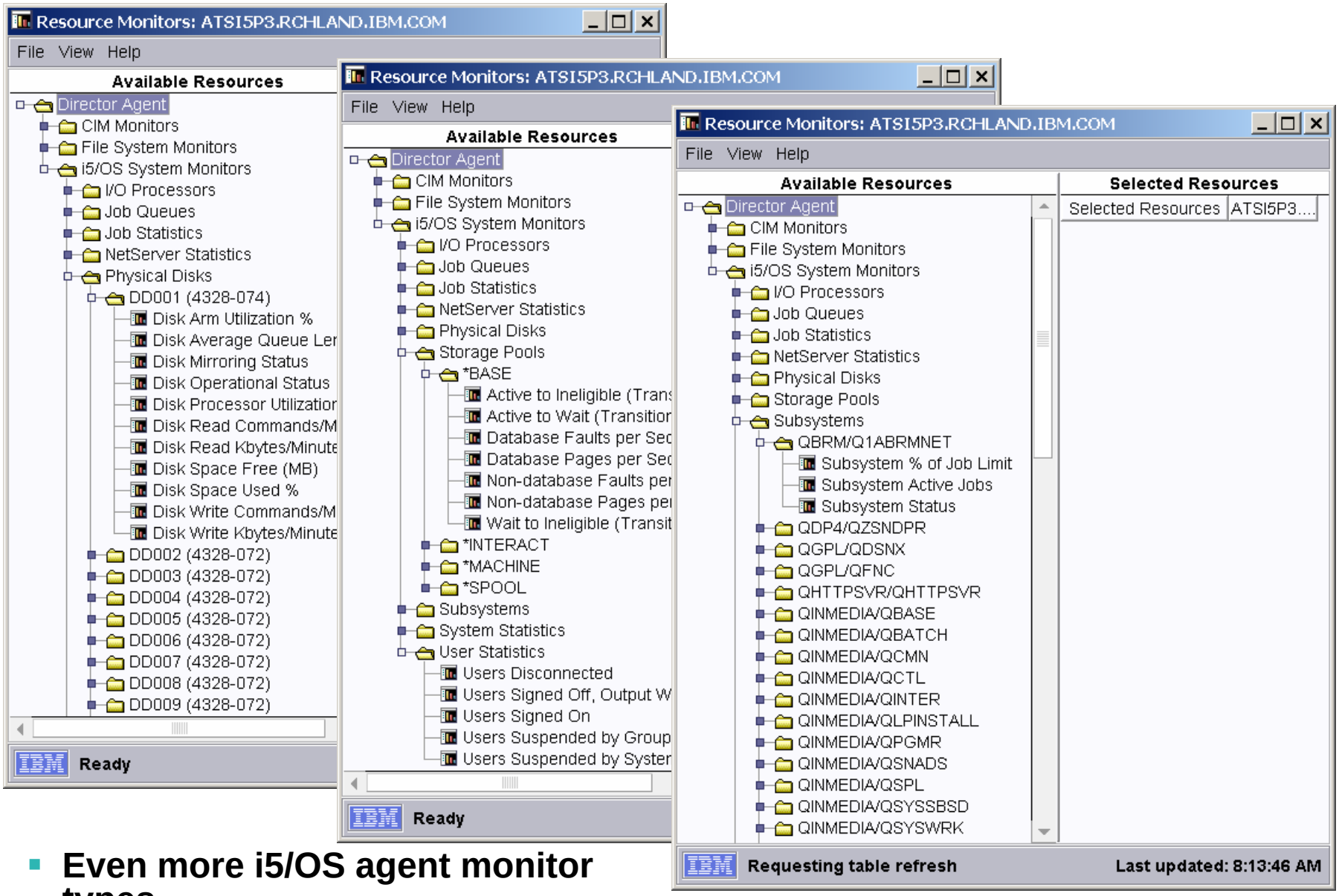

- **Even more i5/OS agent monitor types**

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Event Action Plans

- Define / save customized filters
- Define / save customized actions
- Define and save an action plan name
- Add one or more filters to an action plan
- Add one or more actions to each filter in a plan
- Apply the plans to systems and groups

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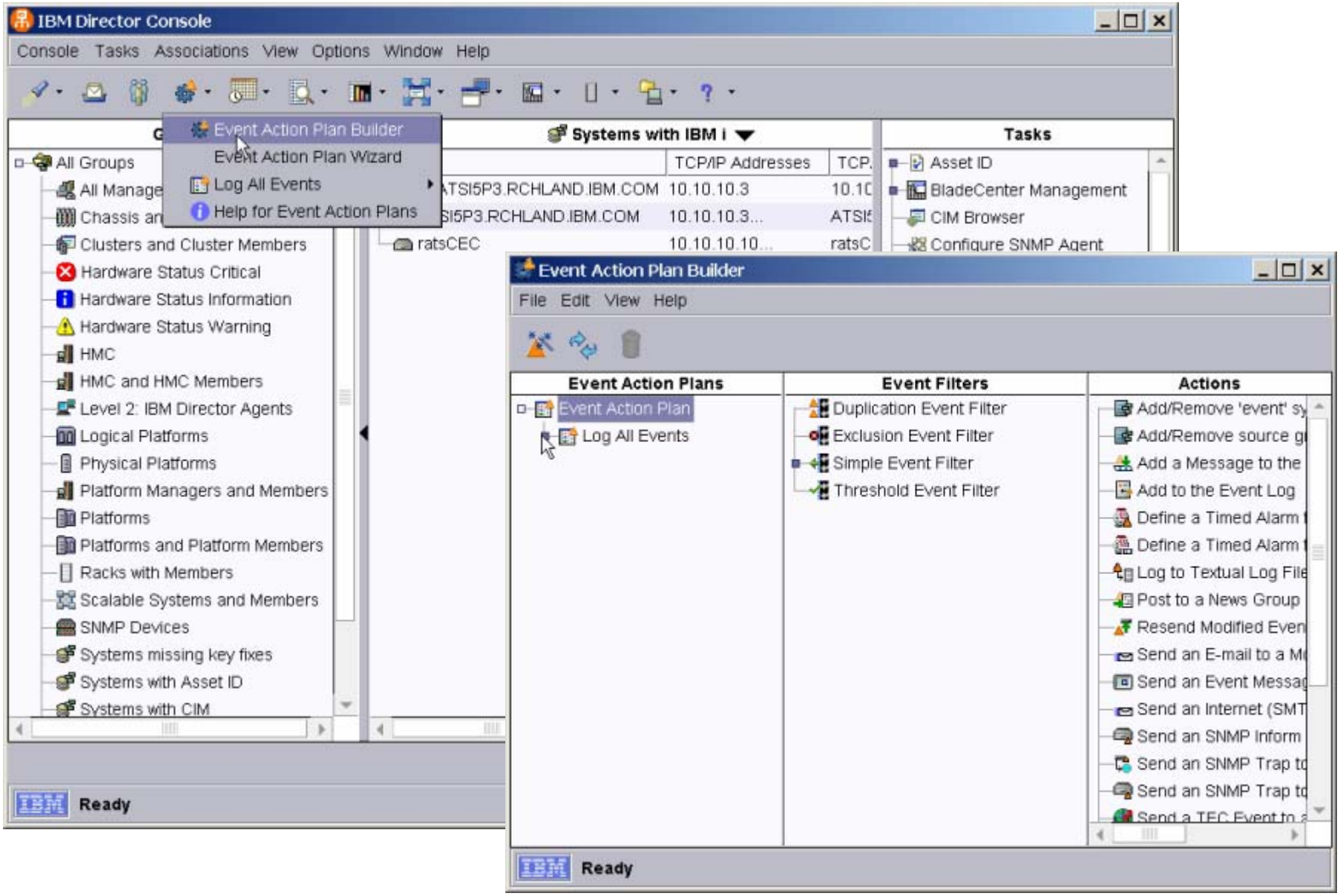

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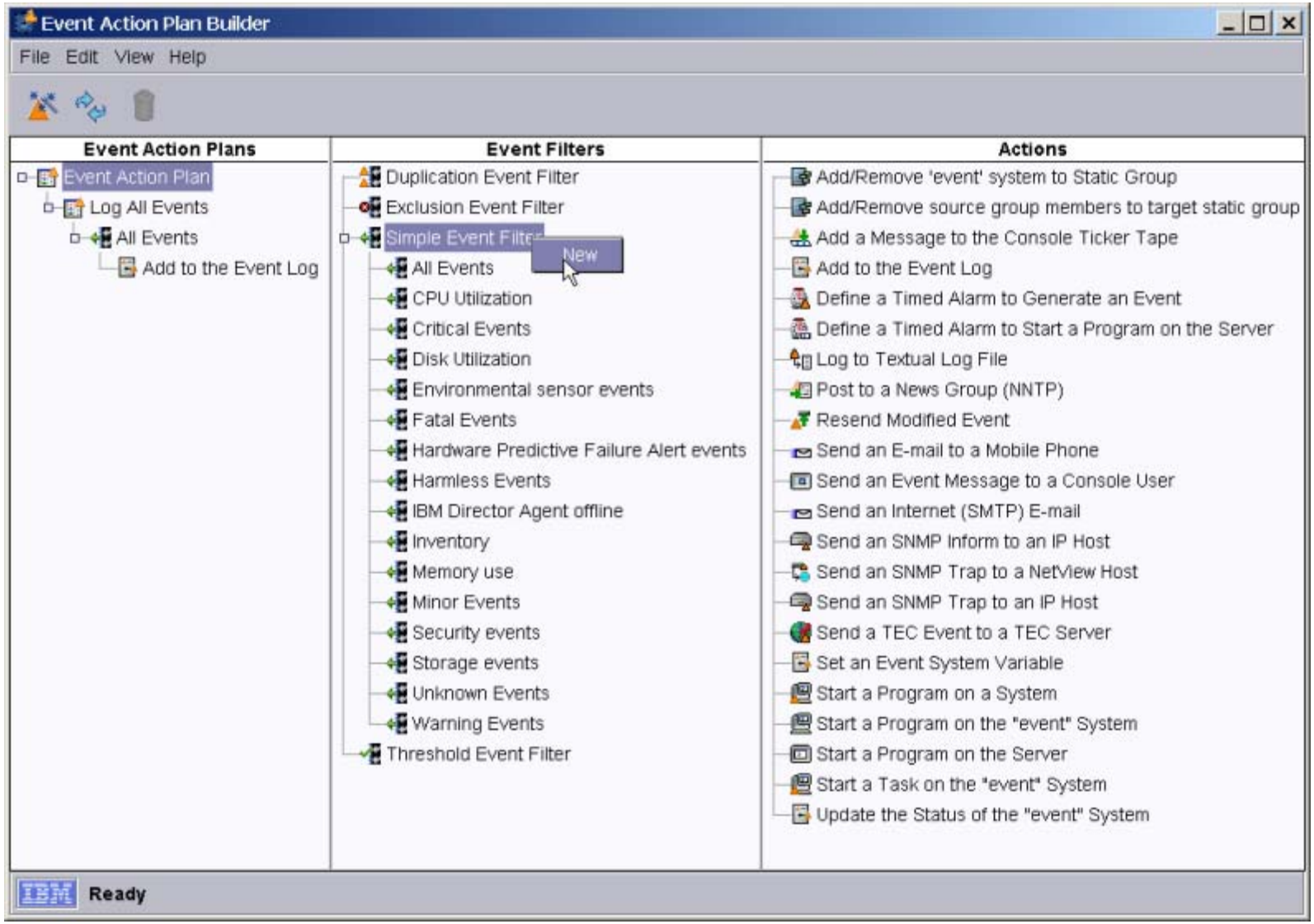

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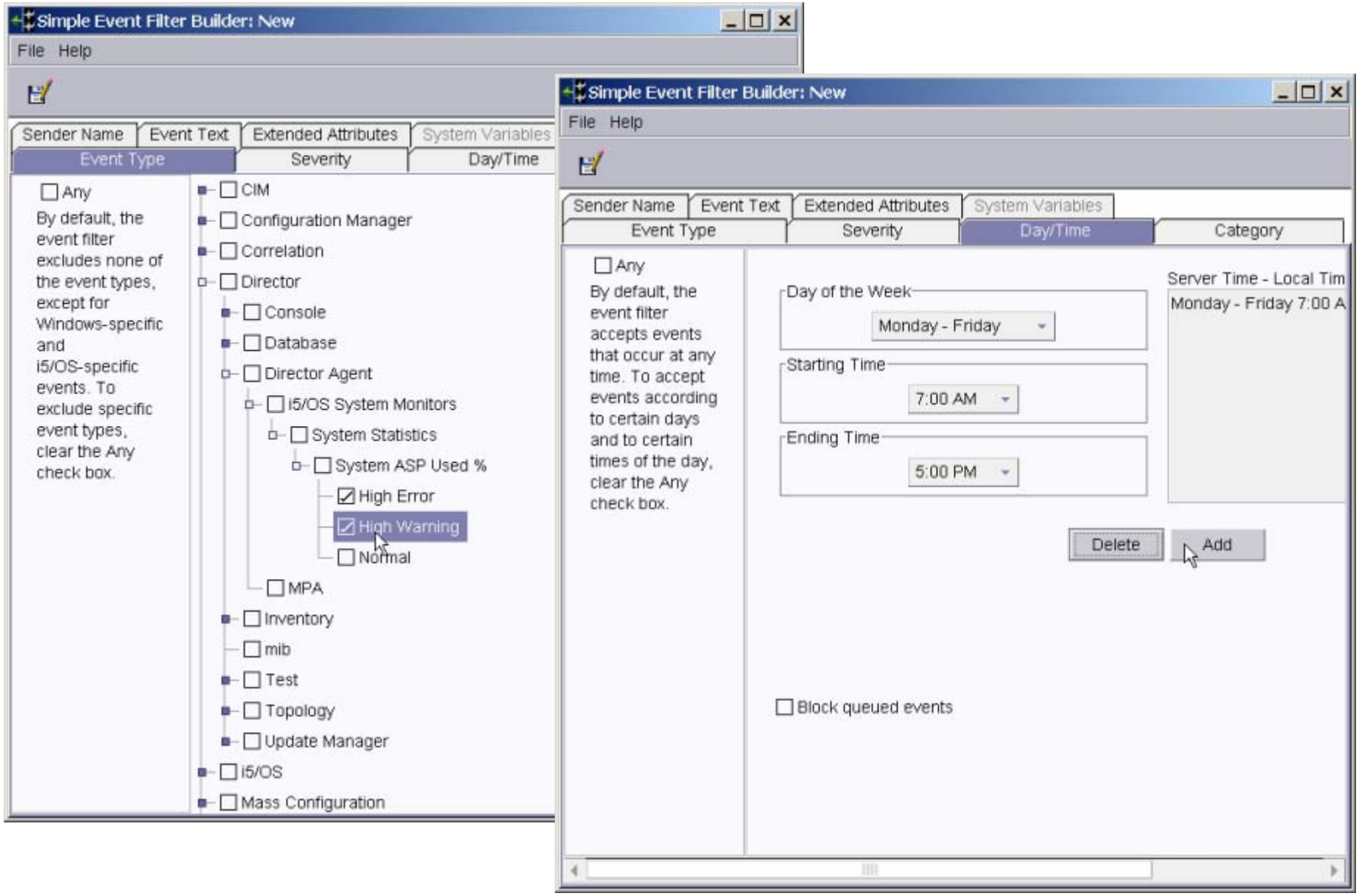

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Event Filters

- Severity – Fatal, Critical, Minor, Warning, Harmless, Unknown
- Category – Alert, Resolution
- Sender Name – End Points
- Event Text – Any word, All words, Exact phrase, Case sensitive
- Extended Attributes – Keyword / Operator / Value
- System Variables – User defined variables in “Set System Event Variable” action

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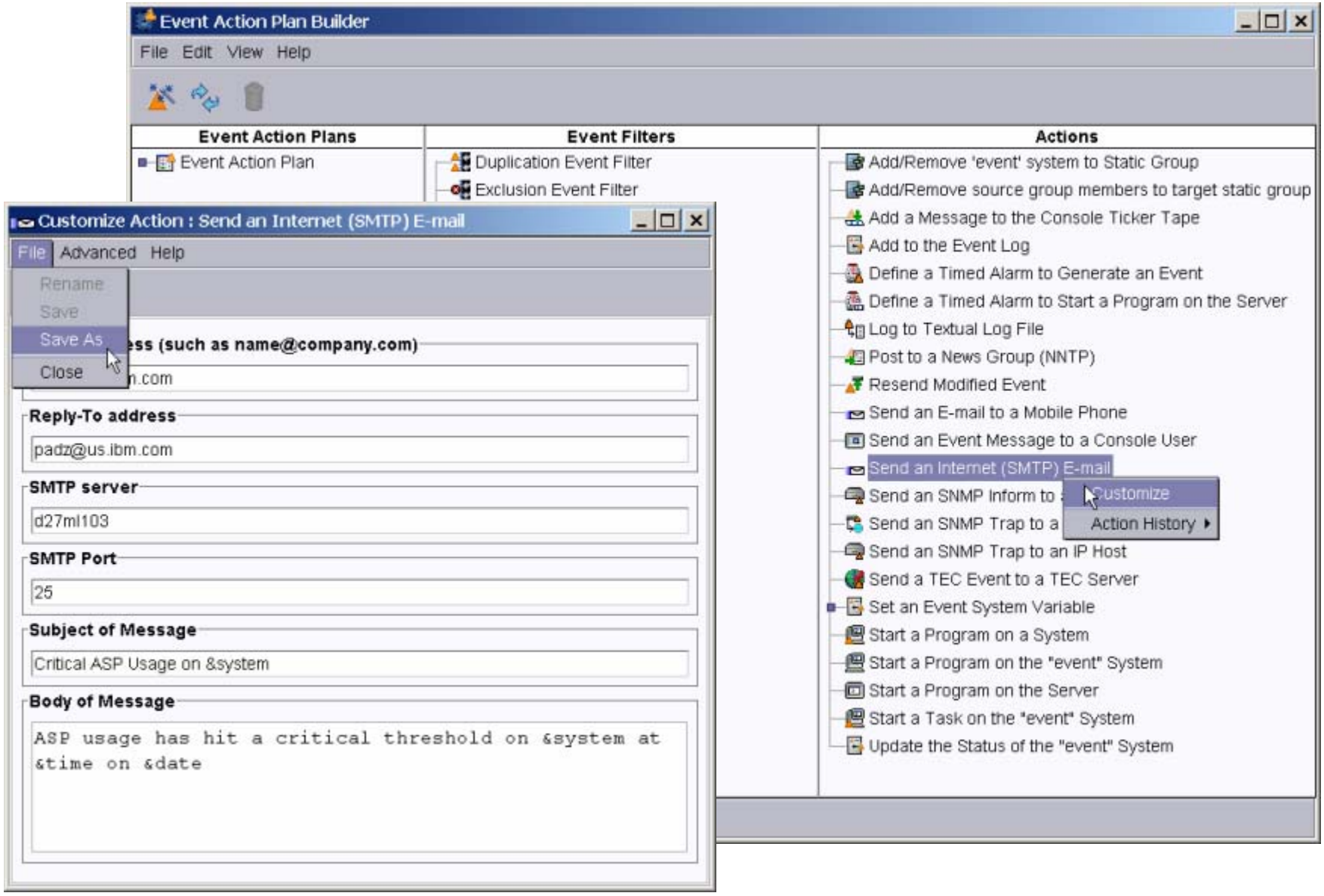

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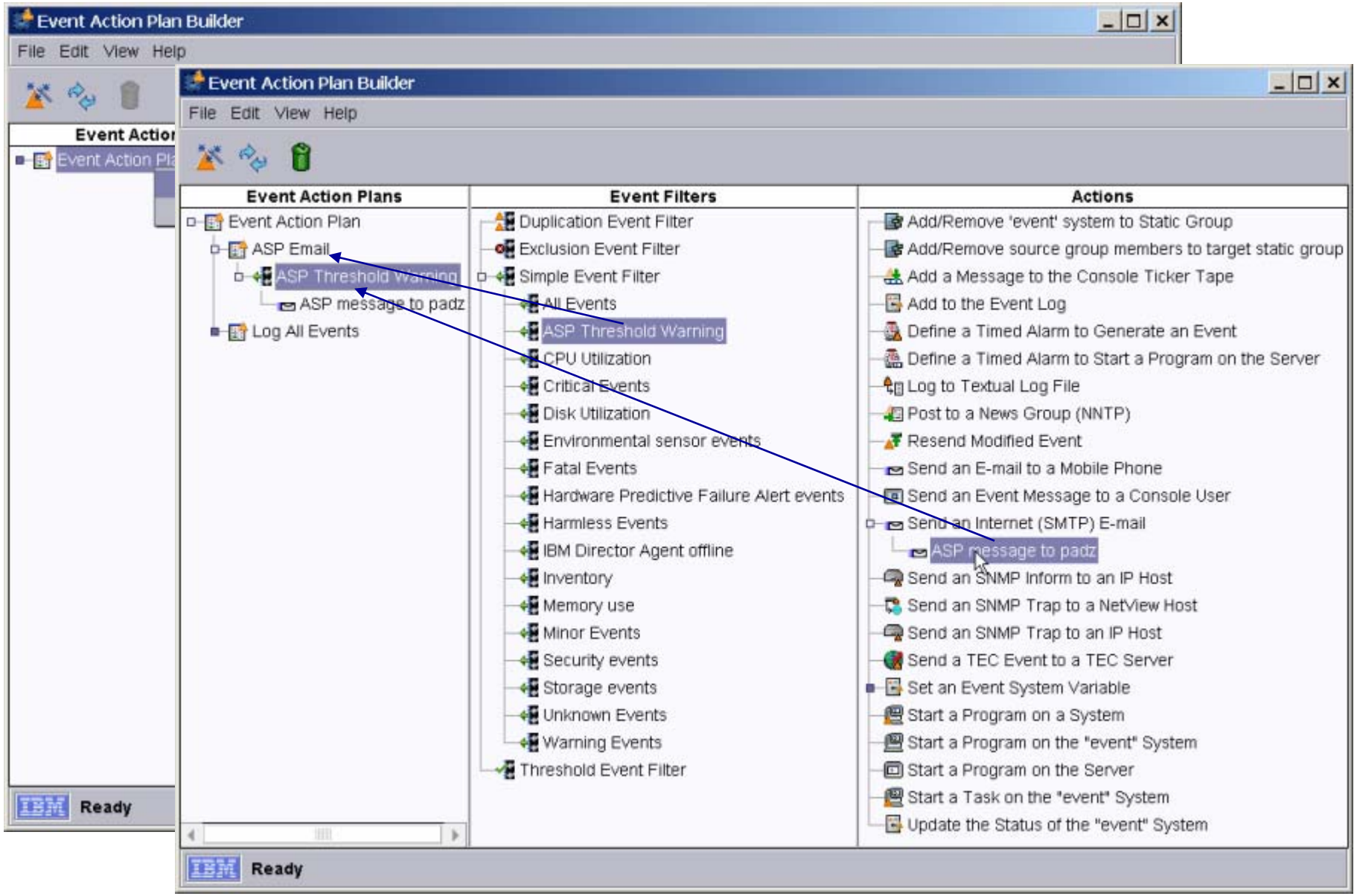

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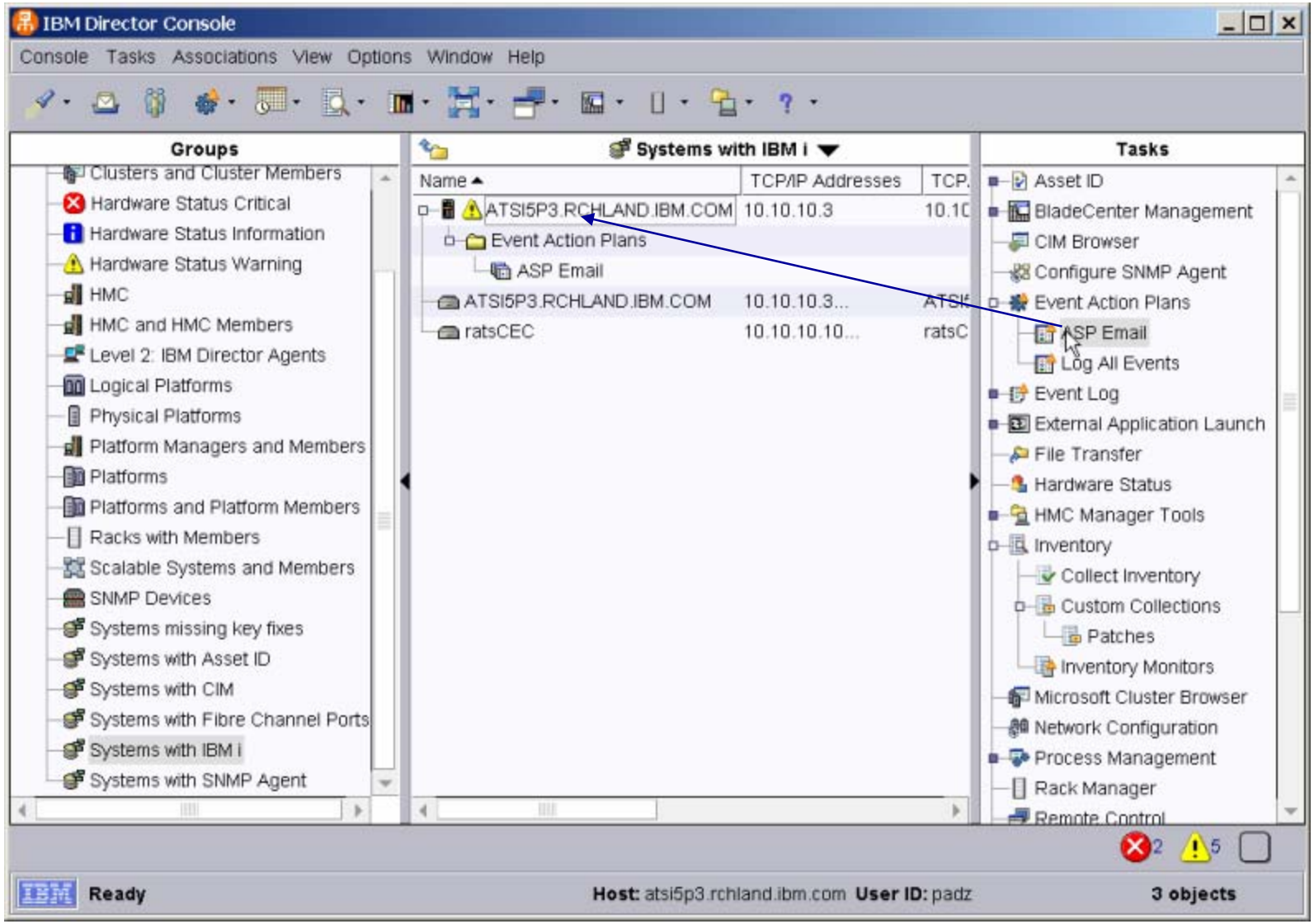

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Event Data Substitution Variables

- &date, &time , &text, &type, &severity, &timestamp, &rawsev, &rawcat,
- &system, &sender, &group, &category, &pgmtype, &corr, &snduid, &sysuid
- &prop:*file_name#property_name*
- &sysvar:*variable_name*
- &slotid:*slot_id*
- &md5hash, &hashtxt, &hashtxt16
- &*otherstring*

*Details can be found in help for action customizatio*n

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Event Filter Types

- Simple event filter
- Exclusion event filter
  - Used to activate a whole subgroup of events, then exclude some subevents
- Threshold event filter
  - Used in scenarios when an event must meet the filter criteria several times within a time limit
- Duplication event filter
  - Allows for duplicate events to be ignored
  - Specify the number of times (count) the same event is ignored during a specified time range (interval).

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Adminstration

- Customizing user access
- Transferring files
- Distributing software

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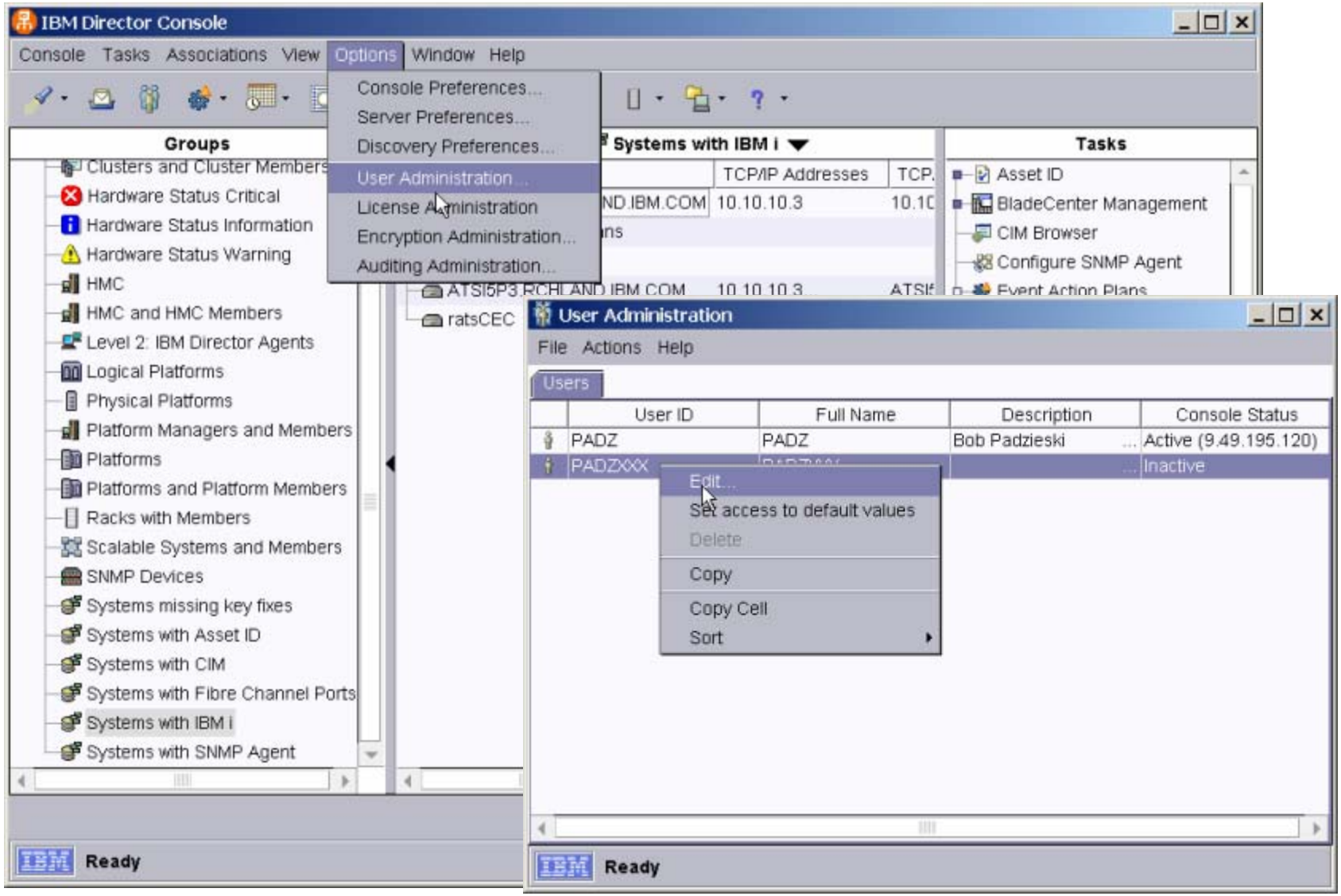

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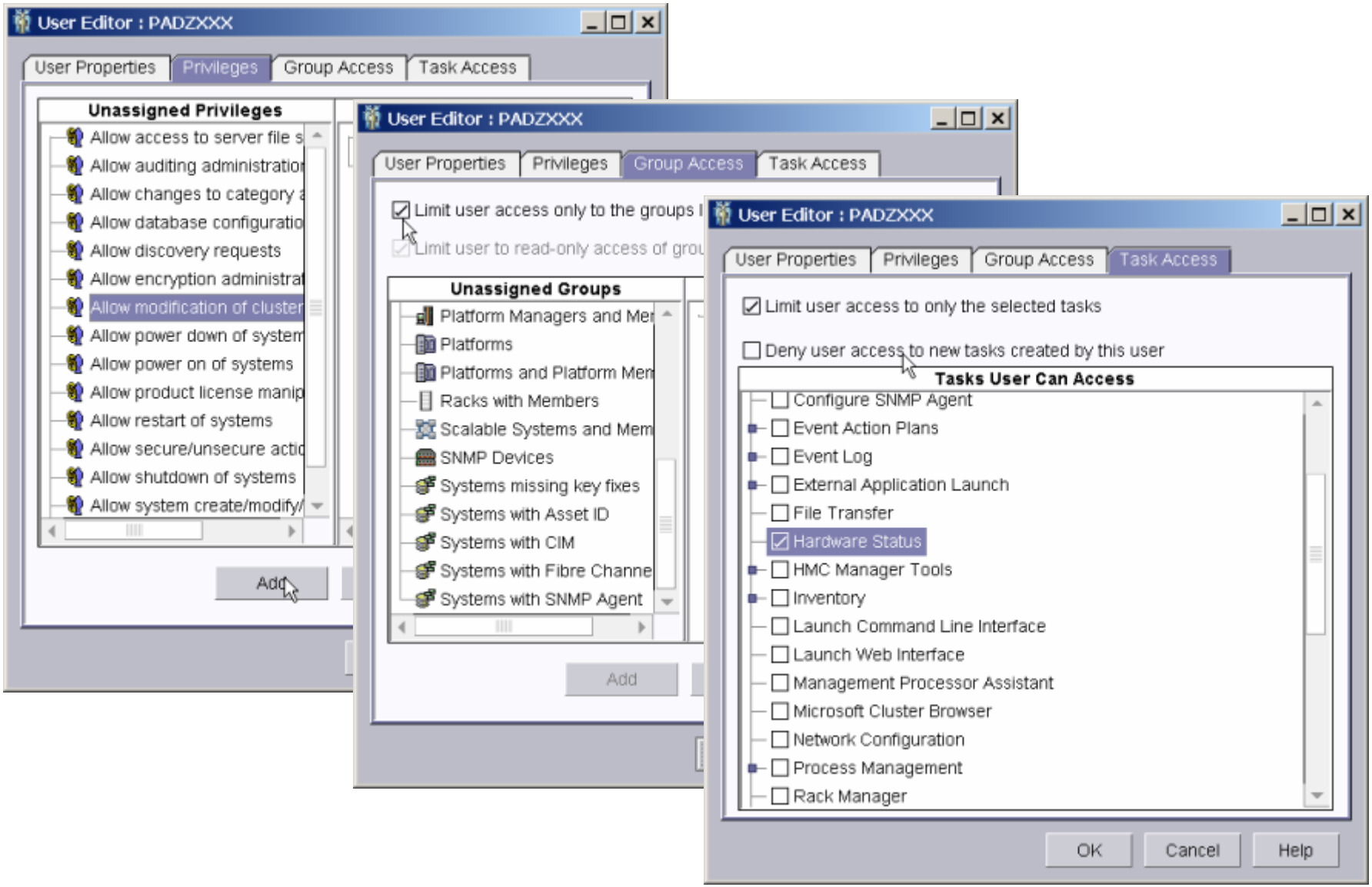

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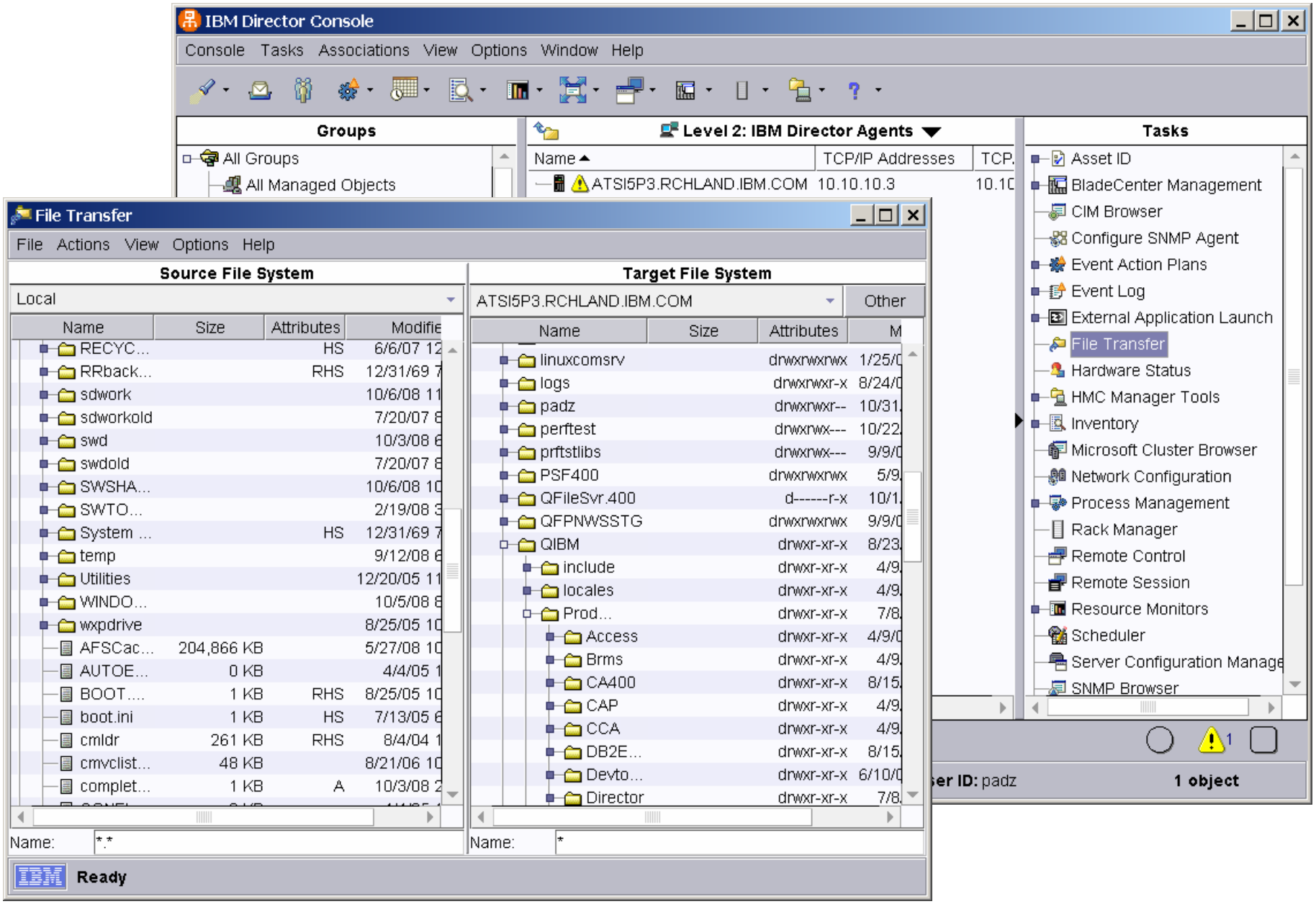

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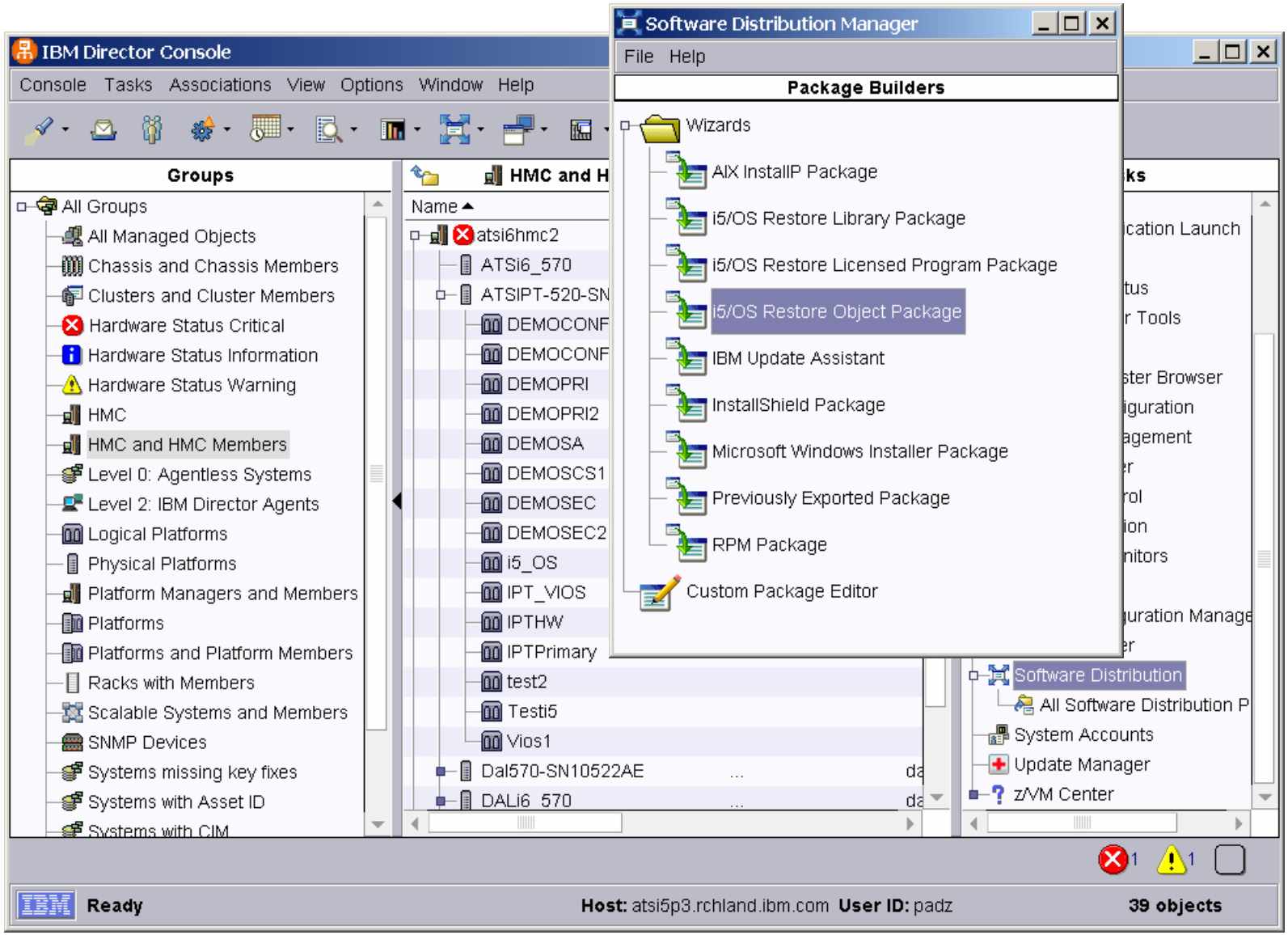

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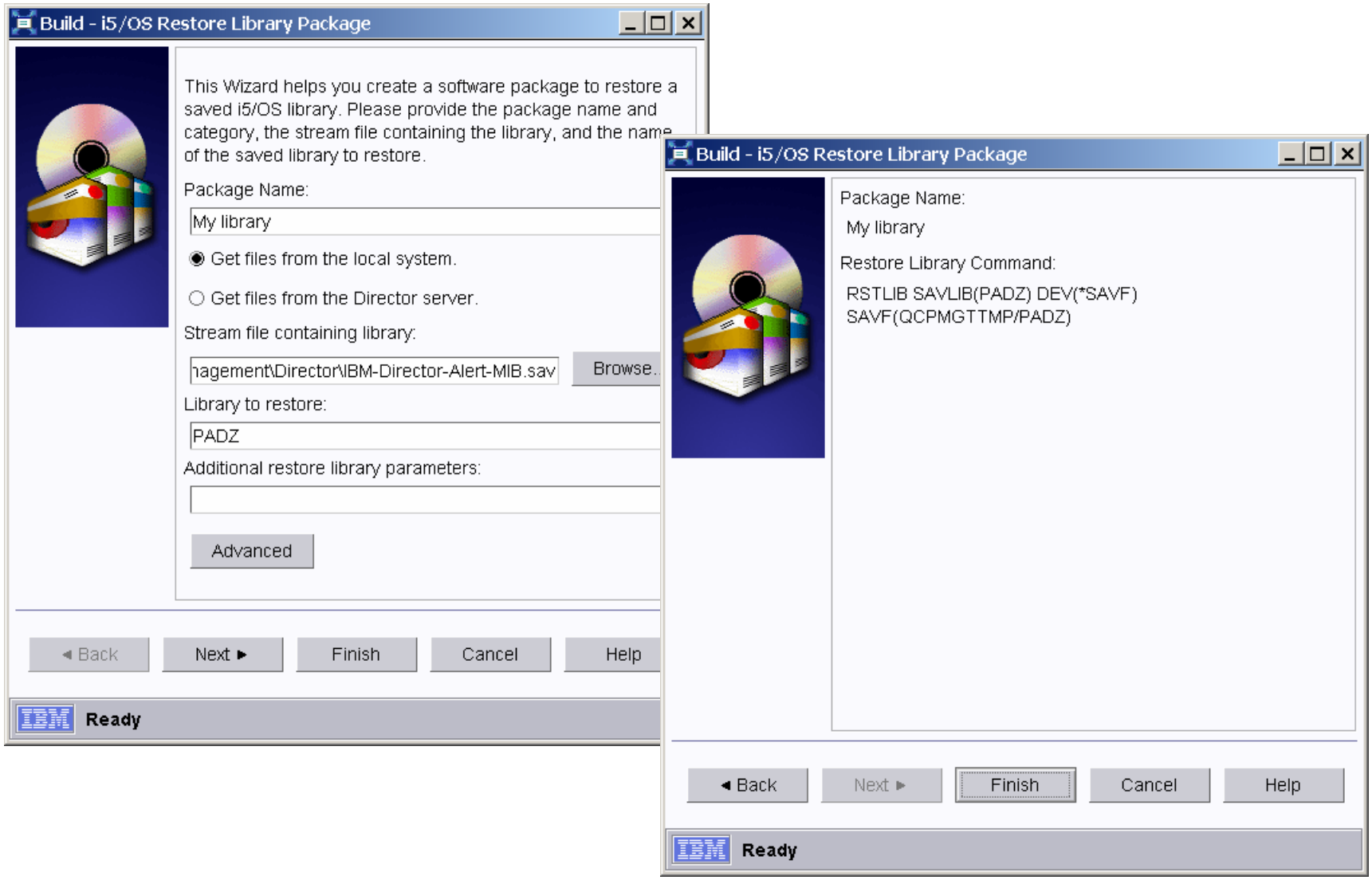

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  - Step to the strategic IBM Systems Director 6.1

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