



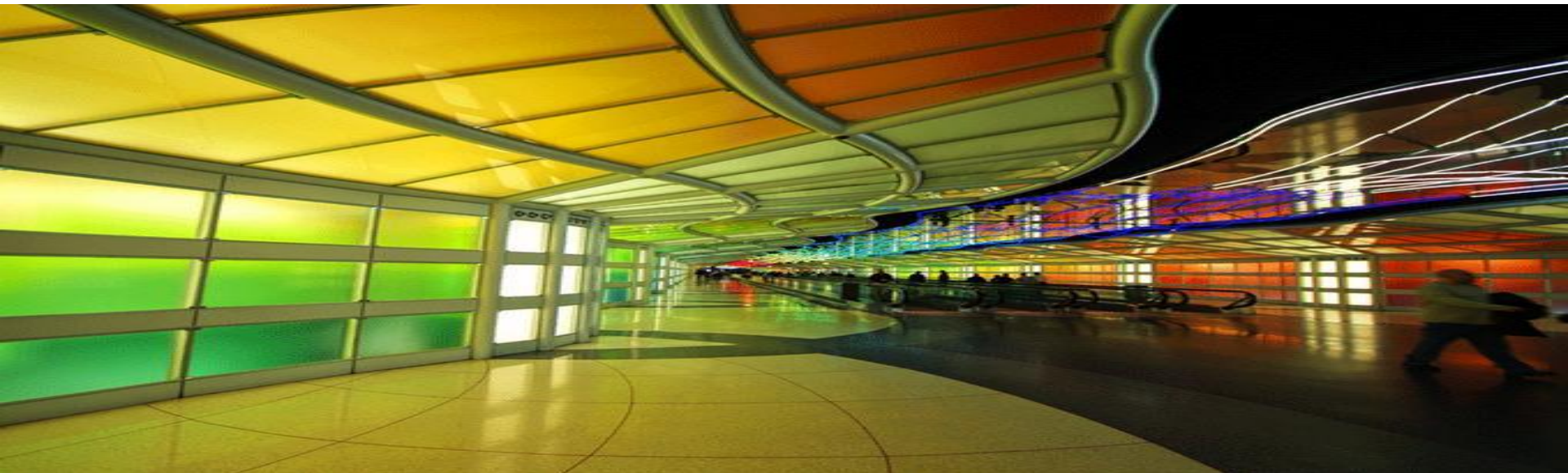
# EView/390z - Managing OS/390 with HP Operations Manager (UNIX and Windows)

***IT Enterprise Operations Management for IBM Legacy Environments – Saving customers time, money and resources***

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# Introduction



# Company Overview

## ■ IT Enterprise Operations Experts

- EView Technology specializes in software and solutions for IBM Legacy mainframe (OS/390 - z/OS) and iSeries (AS/400) computing environments using a single console, via HP Software Operations Manager.
  - Enabling businesses optimize the value of IT by lowering costs and risk while making IT enterprise operations management easier.

## ■ Proven Technology and Support Infrastructure

- Installed worldwide in hundreds of customer locations in 30+ countries
- 24 x 7 Support by experienced and highly skilled in-house staff

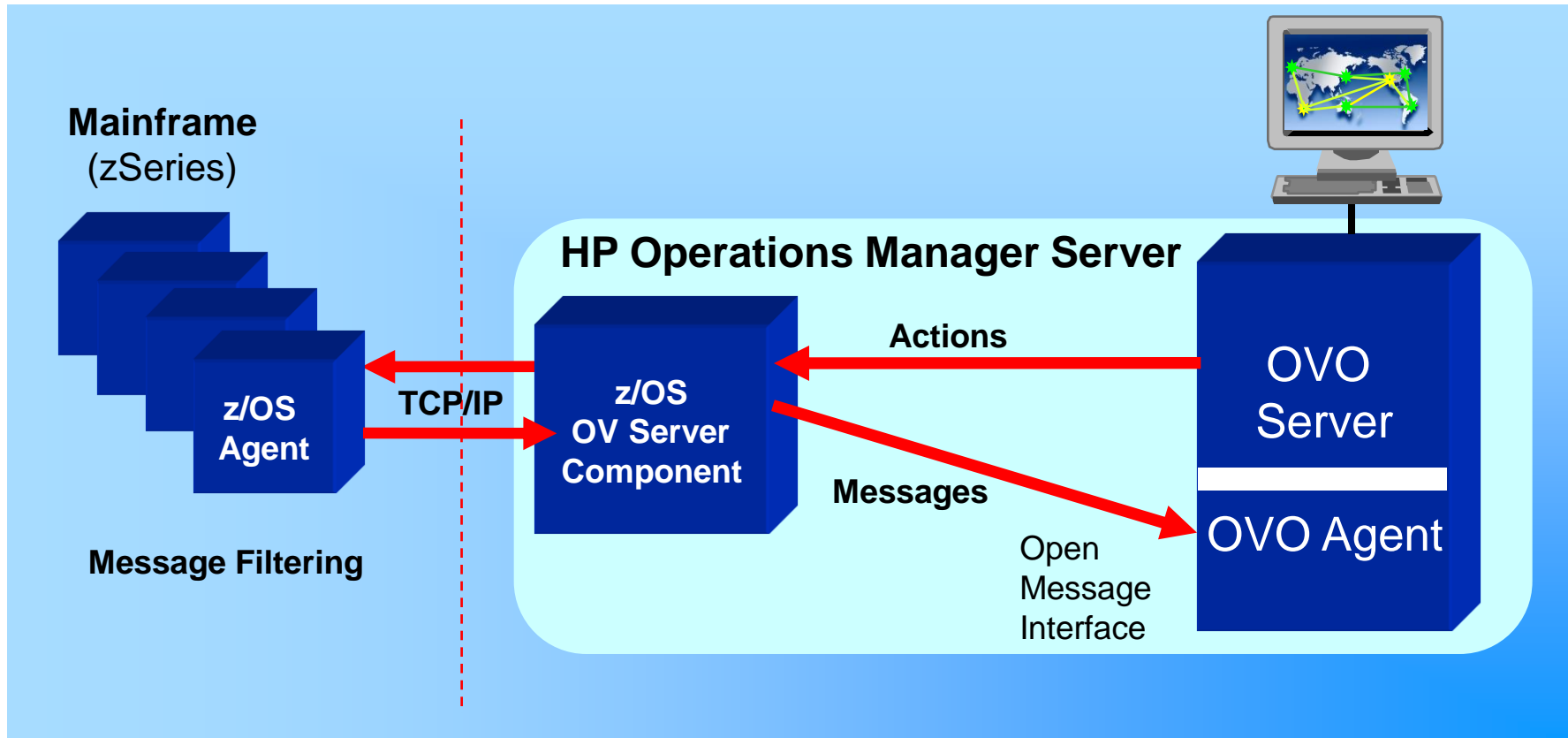
## ■ Customer Focused

- EView Technology is committed to providing the best solutions that meet customer needs and delivering the highest level of individualized customer service to all of our customers.
- EView Technology is a member of IBM's PartnerWorld for Developers, Microsoft Development Partner, and HP Software Gold Partner.

## • Solutions

- EView/390z Management for HP Operations Manager for UNIX, and for Windows
  - Enterprise Operations tools which enables customers to monitor and manage their IBM Mainframe (z/OS) environments from a HP Operations central console
  - Automate operations and Leverage current infrastructure

# High Level Architecture and Integration



# EView/390z Management

## *How It Works*

- Software Agents reside on the IBM system and communicate with the HP Software Operations Center Management server via TCP/IP
- The EView Technology IBM hosted Agents monitor critical management messages that are forwarded to HP Operations Management server
- Administrators analyze problems and exceptions to develop policies and procedures that automate problem resolution
- Operators oversee the automated processes and only need to act when there are exceptions
- Compatible with zSeries (OS/390) management applications

# Technical Overview

- EView/390z Management for HP Operations Manager



# EView/390z Management for HP Operations Manager

## *Key Functionality*

- Monitoring of OS/390-z/OS systems and applications
  - HP Operations Center Console is the central consolidation for all system messages and alerts
- Automation Libraries
  - Out-of-the-box filters provide a “rich starter set” for rapid implementation
  - Agent filters combined with default templates/policies provide building blocks to ensure a rapid start-up.
- Customize and automate using Operations Manager templates/policies
- Operator tools for efficient operation
  - Pre-defined tools for point and click execution of commands
  - Mainframe Visual Management Interface – integrates with the HP Software Operations Java console and provides operators the ability to perform a set of job management functions and supports active job management, JES2 input/output queue management, DASD utilization display, and RMF address space resource data views.

## Key Functionality (continued)

- Performance Monitoring
  - Interface to the IBM Resource Monitoring Facility (RMF) is provided to collect and forward mainframe performance information to the HP Operations management server and HP OpenView Performance Agent
  
- Consolidated Management View
  - Provide a business-centric perspective on the central HP Operations operator console
  - Integrate Mainframe systems and applications with service navigator views
  
- Two-Way Communication with between HP Operations and z/OS systems
  - Maximize problem-resolution speed and automation
  
- Adaptability to your environment
  - Easy to customize to fit your environment and IT management processes
  
- Manage any subset of OS/390-z/OS functions
  - Filter and organize messages and alerts to focus attention to critical areas
  
- Coexists with existing OS/390-z/OS management solutions
  - Increase flexibility and enhance the management of IBM mainframe environments

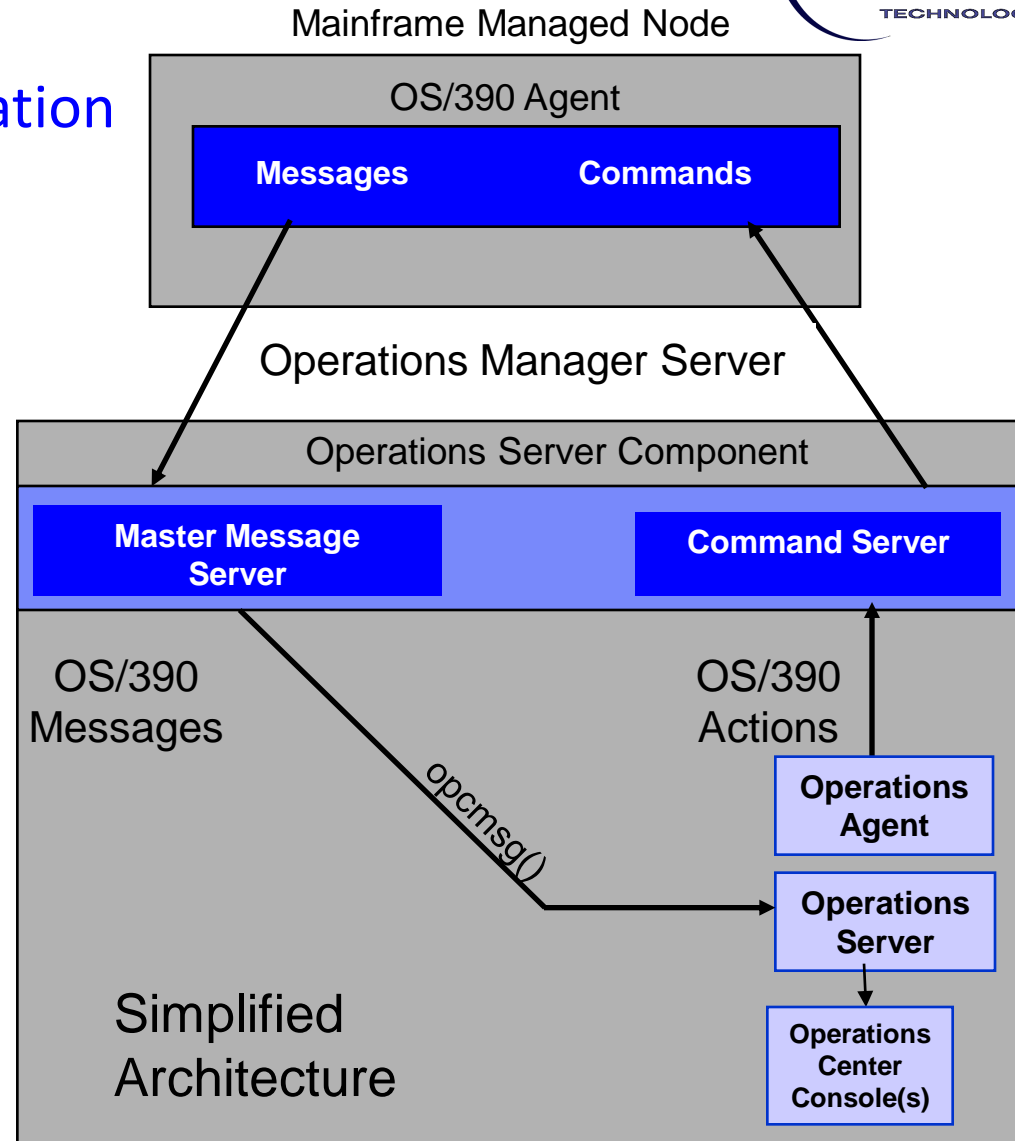
# EView/390z

## HP Operations Manager Integration

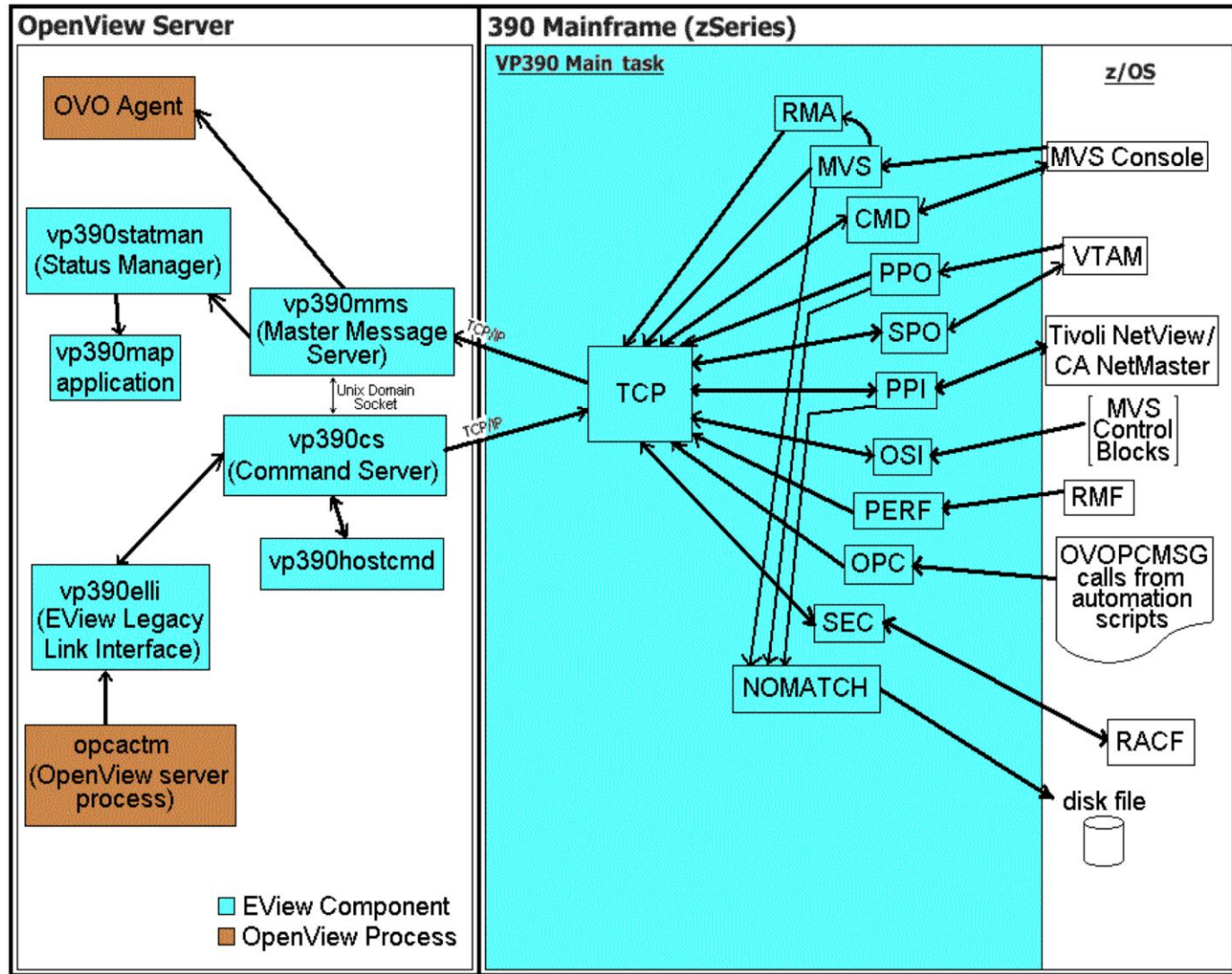
- **Master Message Server**

Distributes incoming messages to the Operations management agent for policy rules processing and to the console message browser.

- **Command Server** forwards Operations action request to an OS/390 system to enable automatic and/or Operator initiated actions.



# EView/390z (z/OS) Agent components



2 N+1

# OS/390-z/OS installation

- Standard “Installer” on HP Operations server
- FTP OS/390 agent files to mainframe
- On S/390
  - Load agent datasets
  - Configure JCL and parameter cards
  - Start agent
- On Operations Manager Server
  - Add S/390 Node
  - Assign 390 policies to Operations Manager server agent
  - Deploy Policies
  - Start 390 server processes

# EView/390z 6.0 New Features

- Direct message interface
- Expanded Message Automation
- Execution of REXX programs from the HP Operations Manager server
- Message translation service
- Mainframe dataset access from the HP Operations Manager server
- Monitoring and Collection of RMF3 metrics
- SMS Storage Group Monitoring
- Use z/OS system symbols in startup parameters to ensure uniqueness of defined options when running the product in multiple LPARs.

# EView/390z Features

## ■ System Console Monitoring

- Extended MCS Console
- Message filters control message flow to the OM Server
  - Filter by message ID, job name, job type
  - Filter based on action (hi-lighted) messages
  - Options for message flags (automation, subsystem suppression, MPF)

## ■ VTAM Monitoring

- PPO (without Netview)
- PPI (with Netview)
- SPO (VTAM operator commands)

# EView/390z Features

## ■ Performance Data Collection

- RMF I
  - Fixed set of system level metrics
  - Collected on configured interval
  - Sent to the OM Server to be stored
  - Pushed from the agent
  
- RMF III
  - Configurable set of metrics to be collected
  - Pull from the OM server using Scheduled Action template
  - Data stored on the OM server

For both RMF I and III data, the data is stored in the OM performance data store where it can be accessed from standard HP reporting tools.

# EView/390z Features

## ▪ Direct Message Interface

- Allows sending of messages directly to the EView agent and OM server, bypassing the system console/hardcopy log.
- Same type parameters that are available with the OM opcmmsg command.
- Can be called from batch, REXX, CICS transactions, application programs.

## ▪ Message Automation

- Two ways to perform message automation
  - Use actions in OM templates
    - Can be native commands or multiple commands executed in scripts
    - Output of action is saved in message annotations
  - RMA (REXX Message Automation)
    - On-board automation by the agent. Message passed to a REXX exec configured for the message ID.
    - REXX Exec can take actions, modify message before sending to the OM Server or suppress sending of the message to the OM Server.

# EView/390z Features

## ■ OSI (Operating System Interface)

- Built-in functions on the agent accessible from the OM server for creating monitors on the OM server
  - List of active jobs
  - DASD information
  - SMS Group information
  - List datasets (PS, VB, PDS)
  - SDSF interface (input queues, output/held queues)
  - Execute REXX commands
  - RMF I performance data

# EView/390z Features

## ■ Reliable TCP Communication

- Heartbeat and positive message acknowledgement
- Message Buffering

## ■ Command Console

- Allows commands to be sent from the OM Server
- Can be controlled RACF OPERCMDS resource.
- Can be used to send commands via automatic or operator initiated actions
- Define commands in OM Application bank to be executed by OM operator

## ■ Miscellaneous

- System symbolics supported in configuration
  - Allows a single configuration file to be used on multiple LPARs.

Where to go for more information

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