

# CA Workload Automation CA 7<sup>®</sup> Edition

## Product Update Global Webcast

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@CA7WA\_Expert



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# Agenda

- CA Workload Automation General Strategy
- CA Workload Automation CA 7 Edition r12 and Beyond
- CA Workload Automation iDash r12 Update
- CA Workload Automation Agents Update
- CA Workload Automation Agent Monitor

# CA Workload Automation General Strategy



# Vision Statement

## CA Workload Automation Solutions

Provide our customers with an enterprise workload automation solution that is easy to use, install, manage and secure, helping to reduce total cost of ownership

# Product Goals

## CA Workload Automation

### Business Goals

- Deliver compelling business value for existing CA WA customers
- Be the market-leading solution for Workload Automation

### Usability Goals

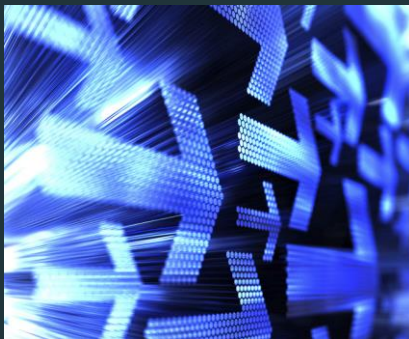
- Broad platform support
- Ease of Use and Simplified Management
- Integrations with Business Applications
- Increase Agent Job Types to reduce the number of Scripts to lower TCO

### Product Architecture Goals

- Simplify installation and deployment across all platforms
- Scalability and performance for Enterprise workload environments

# Strategic Themes

## CA Workload Automation Engines



### EASY ADOPTION

Deliver Rapid Time-to-Value



### REDUCED COST

Lower cost, fewer penalties



### MODERN STANDARDS

Power the App Economy

### VALUE DRIVERS

#### Ease of Use

Installation Simplified and Secure

#### Monitoring

Manage by Exceptions, Single Point of Control

#### Manage Business Applications

Execute and Manage Workflows Across the Enterprise

#### Multi-Platform Workload

Event Driven Simplified Scheduling Definitions

#### Reporting

Built-in Simulation and Visualization Tools

#### Business Responsiveness

Real-Time Automation and Dynamic Workload Placement

# CA Workload Automation CA 7<sup>®</sup> Edition (CA WA CA 7) r12 and Beyond



**Mainframe Workload Solution**  
CA investment 40+ years and counting

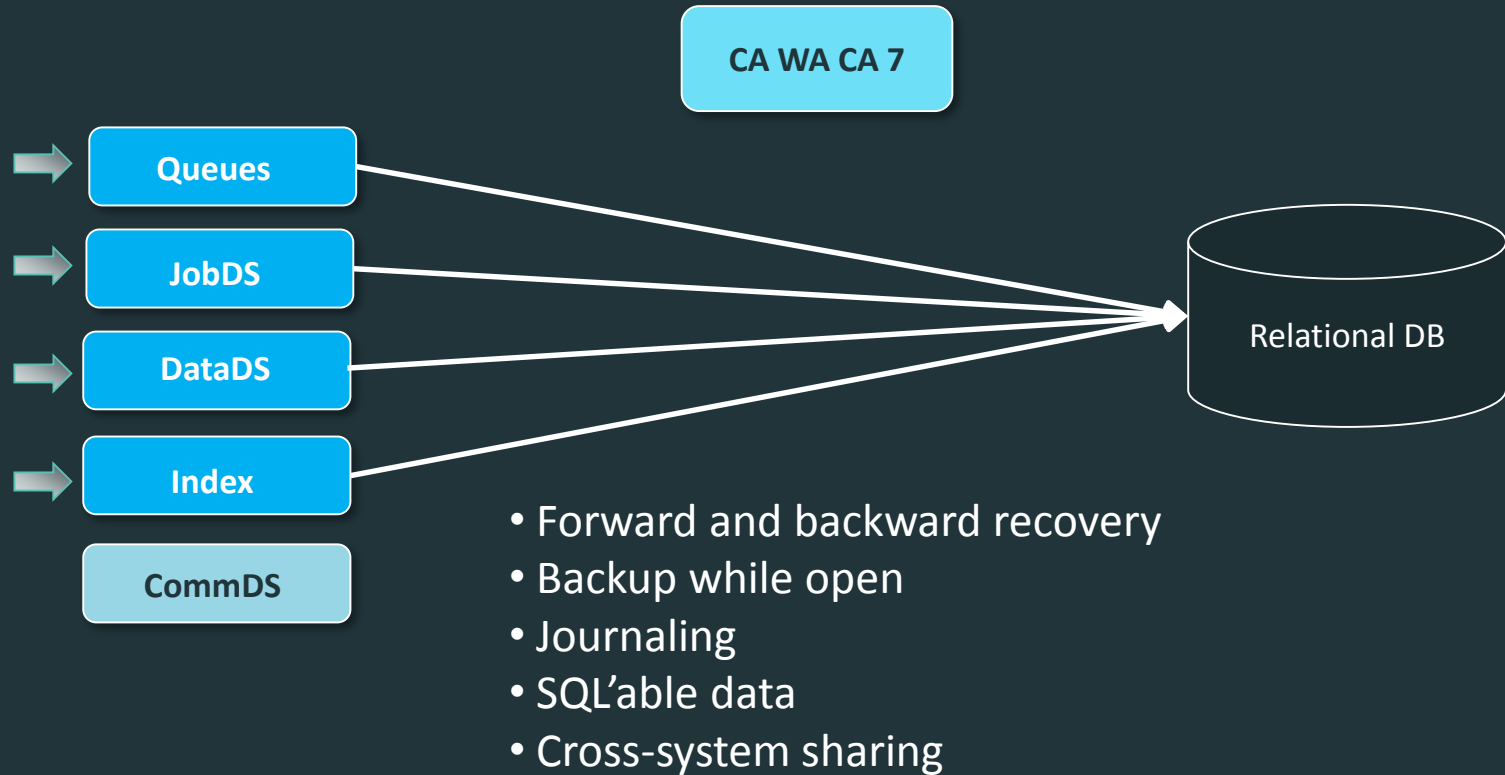


# Functionality Already Delivered

Feature	Description	Benefit
Datcom Database	In <b>CA WA CA 7 r12</b> , tables in a CA Datcom/AD database replace the VSAM database (SASJOB, SASDS, IDS, ARF, and VRM) and the status queue data sets	The benefits include being able to utilize SQL queries and long term strategies for Active / Active environments
zIIP Support	Add the Datcom database for <b>CA WA CA 7 r12</b> to the zIIP engines while sub-tasks for job submission, Agent feedback and XCF processing are now zIIP enabled (INIT,ZIIP={NO   YES}	Reduce the overall consumption on General Processors to reduce cost and lower TCO
Backup while open (supporting 24x7x365 requirements)	<b>CA WA CA 7 r12</b> use of Datcom provides the ability to keep CA 7 active while creating backups for recovery	No outages required
Backward and Forward recovery	<b>CA WA CA 7 r12</b> use of Datcom enables the ability to restore from a back up weeks old and apply log files to bring current	Disaster recovery or lost data failures can be restored up to date with out manual intervention
Independent Tasks	<b>CA WA CA 7 r12</b> removed several task from the main task	Performance considerations and long term strategy to improve performance
iDash Integrations	Both <b>CA WA CA 7 r11.3</b> and <b>r12</b> enable the ability to become proactive with SLA monitoring	Being able to have the knowledge at any point and time where a flow is and when it will completed. Advanced notifications as needed when SLA's are in danger or will be missed

# CA Workload Automation CA 7<sup>®</sup> Edition r12

Building Blocks for the Future



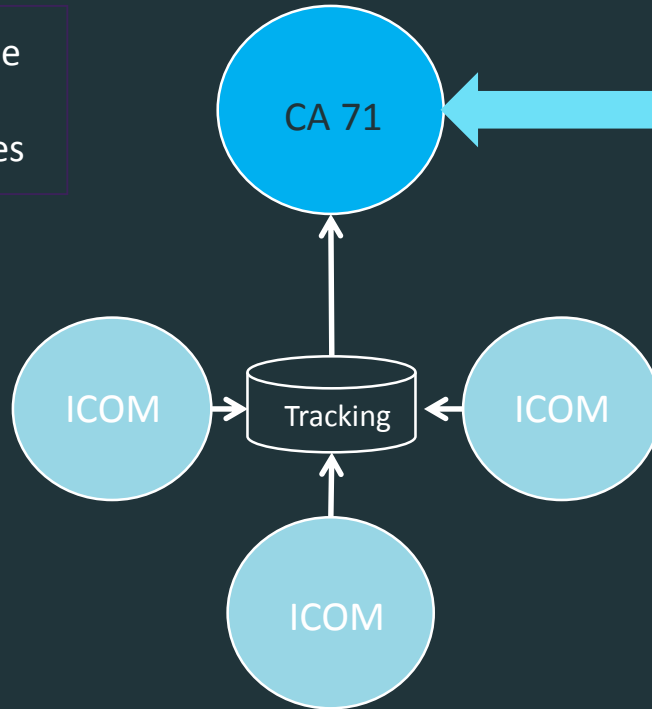
# CA Workload Automation CA 7® Edition

Some Architecture Considerations and Ideas – **no commitment**

- **SYSPLEX awareness and High Availability**
  - Extend the CA WA CA 7 architecture to further exploit the SYSPLEX
    - Take advantage of multi-CP's and SP's
    - Migrate to a more distributed or cooperative processing model
  - High Availability rather than Failover
    - No delay if one or more LPARs lost in a SYSPLEX
- **Active–Active support**
  - Work with IBM as the technology evolves
    - Active–Standby → Active–Query → Active–Active
  - Synchronized workloads across geographically dispersed systems

# CA WA CA 7 – Existing SYSPLEX Architecture

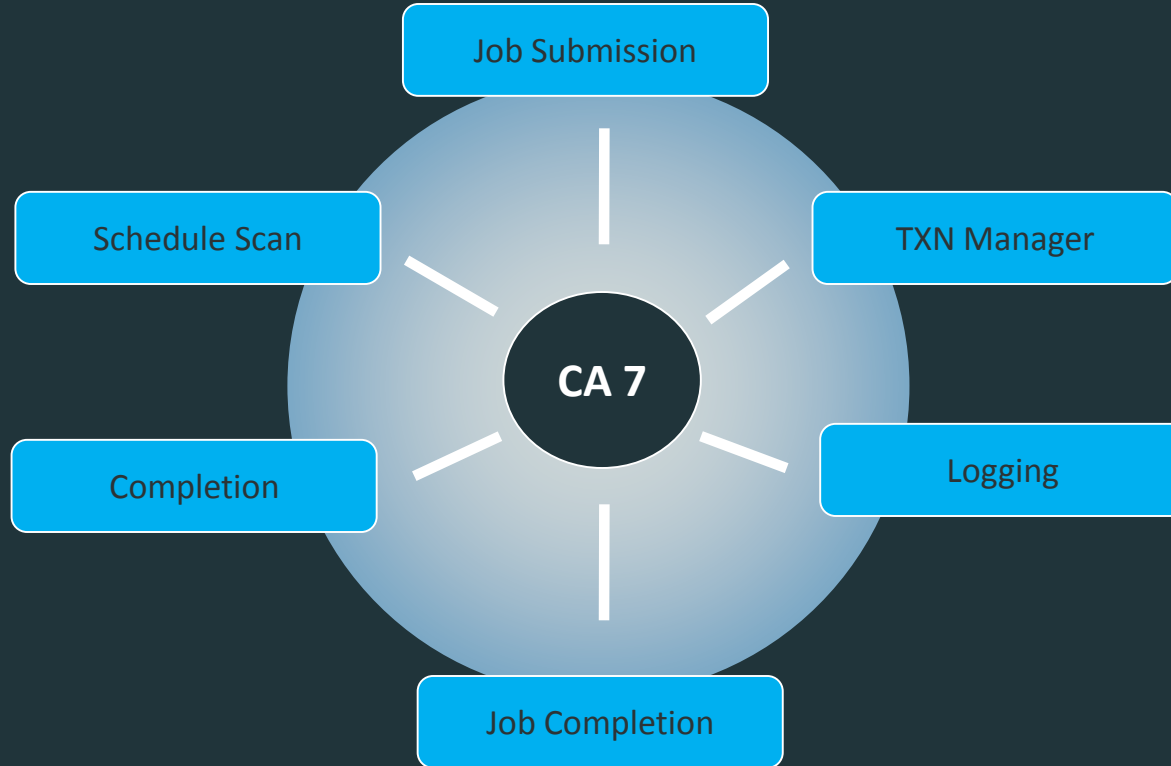
- VSAM database
- Queue files
- Application files



- Primary CA WA CA 7 instance
- Jobs submitted to the internal reader(s) on the host LPAR
- SMF feedback collected by independent ICOMs on each LPAR
- Failover or “dormant” copy on LPAR 3
- Control data must be shared between LPARs –COMMDS or XCF (r11.3)

# Distributed Processing Architecture

Concept of Discreet Components – **no commitment**



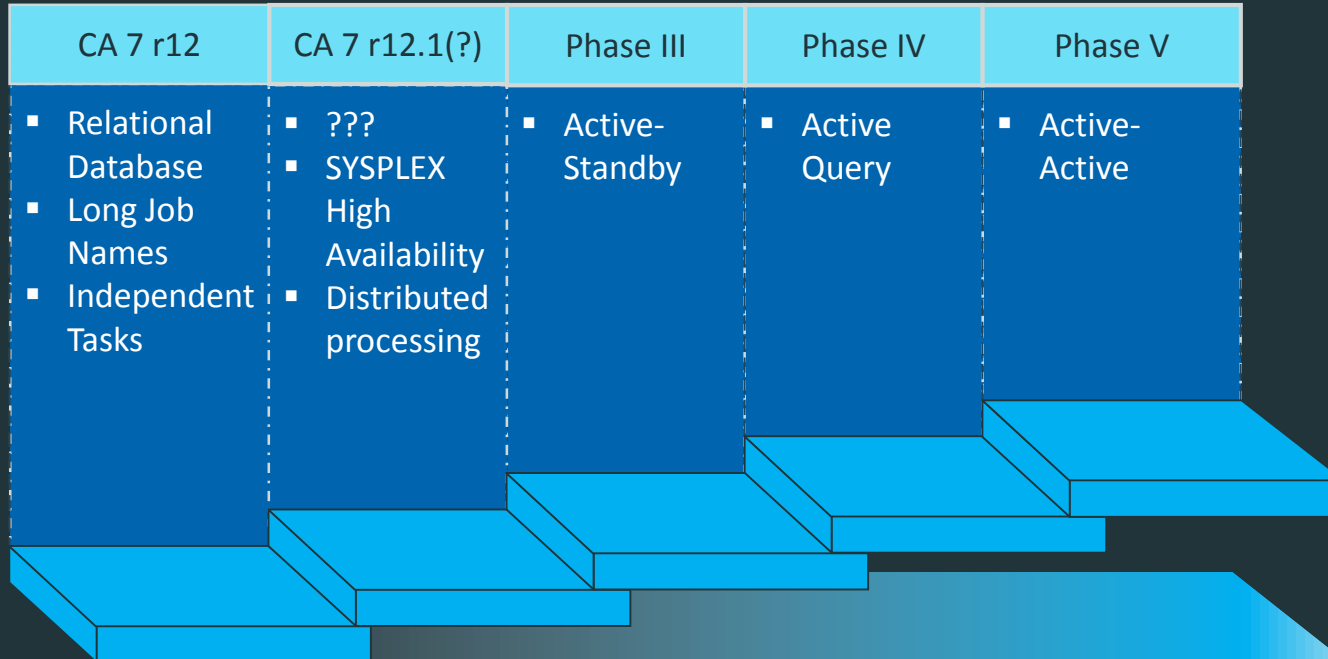
# Distributed Processing Architecture

Concept of Discreet Components – **no commitment**

- CA WA CA 7 PLEX-aware processing
- Job Submission – biggest benefit for maximizing SYSPLEX resources
- Transaction Manager – handles all terminal or UI requests for data
- Logging – independent component for recording activity and audits
- Schedule Scan – single instance to identify eligible work to run
- Job Initiation – JCL processing, variable substitution, requirements
- Completion – manages tracking data , completion status, and triggers

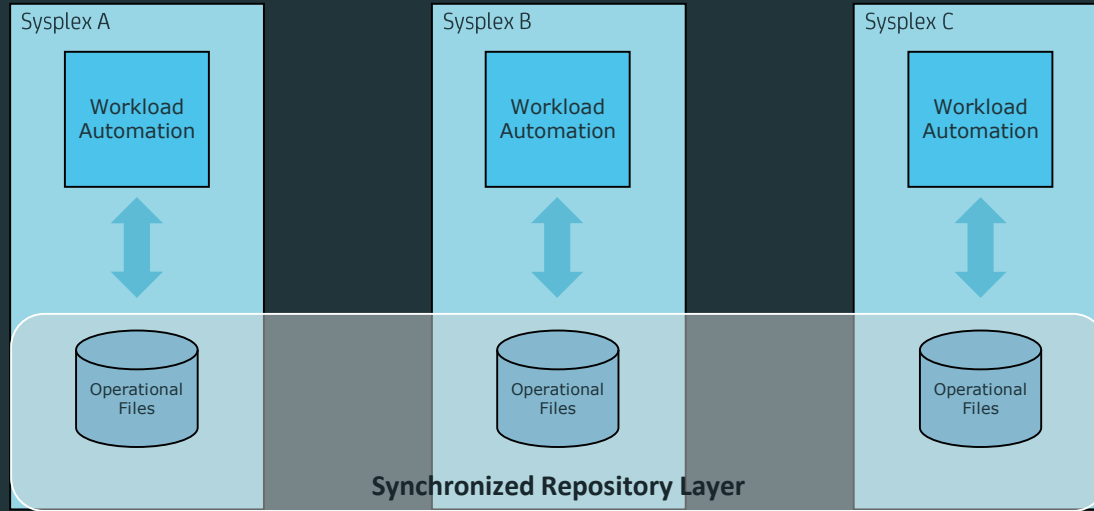
# CA WA CA 7 Edition Transition – Under Consideration

Customer Feedback on r12.1 Functionality Requested – **no commitment**



# CA WA Architecture Concepts

Mechanisms for Active-Active and High Availability – **no commitment**



- All CA Workload Automation instances interface with the Synchronized Repository Layer
- The Repository maintains a common view that is automatically synchronized across all sets of the Operational Files
- Any work being controlled by a CA Workload Automation instance that fails is automatically transferred to one of the remaining active instances



# Request for Customer Feedback of Ideas

- CA WA CA 7 r12.1 is currently in design phase
- Aimed at Sysplex exploitation
- Customer input on needs and requirements requested
- Participation in [Sprint Reviews](#) and [Beta Testing](#) later
- Contact CA for information on providing input to design

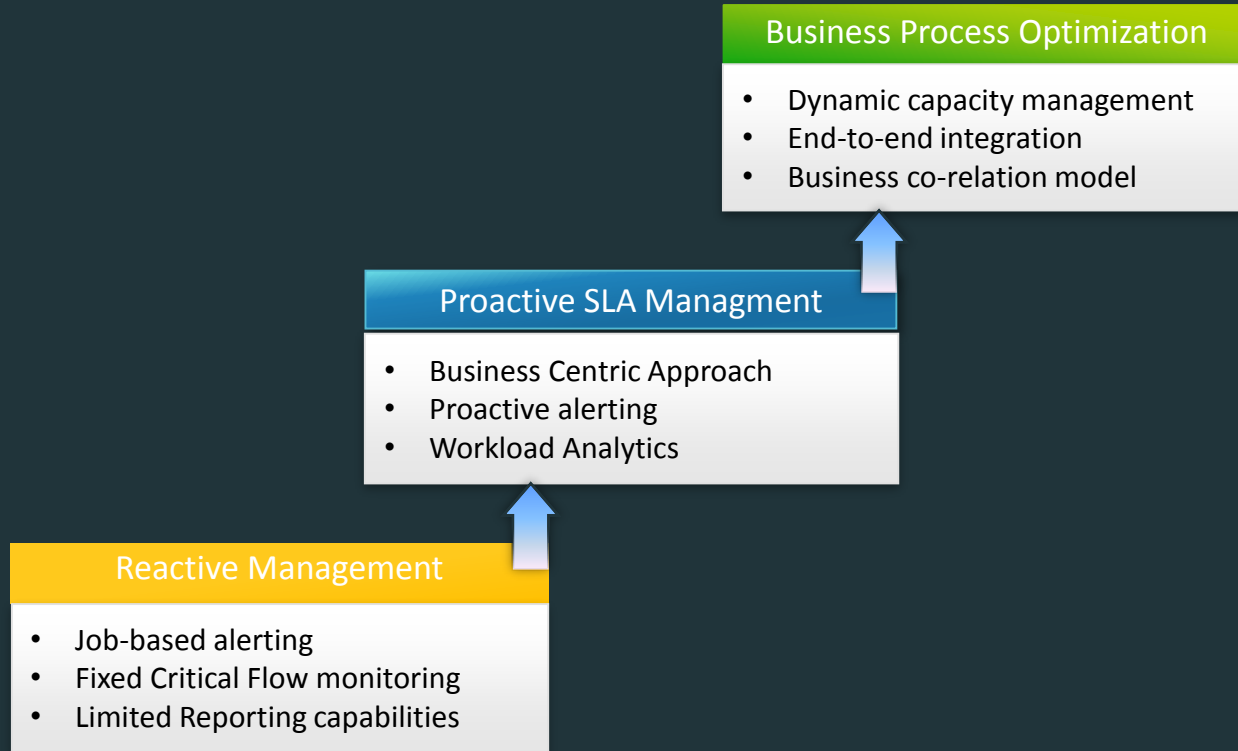
# CA WA iDash r12 Update

SLA Monitoring and Analytics



# SLA Management

## Maturity Model

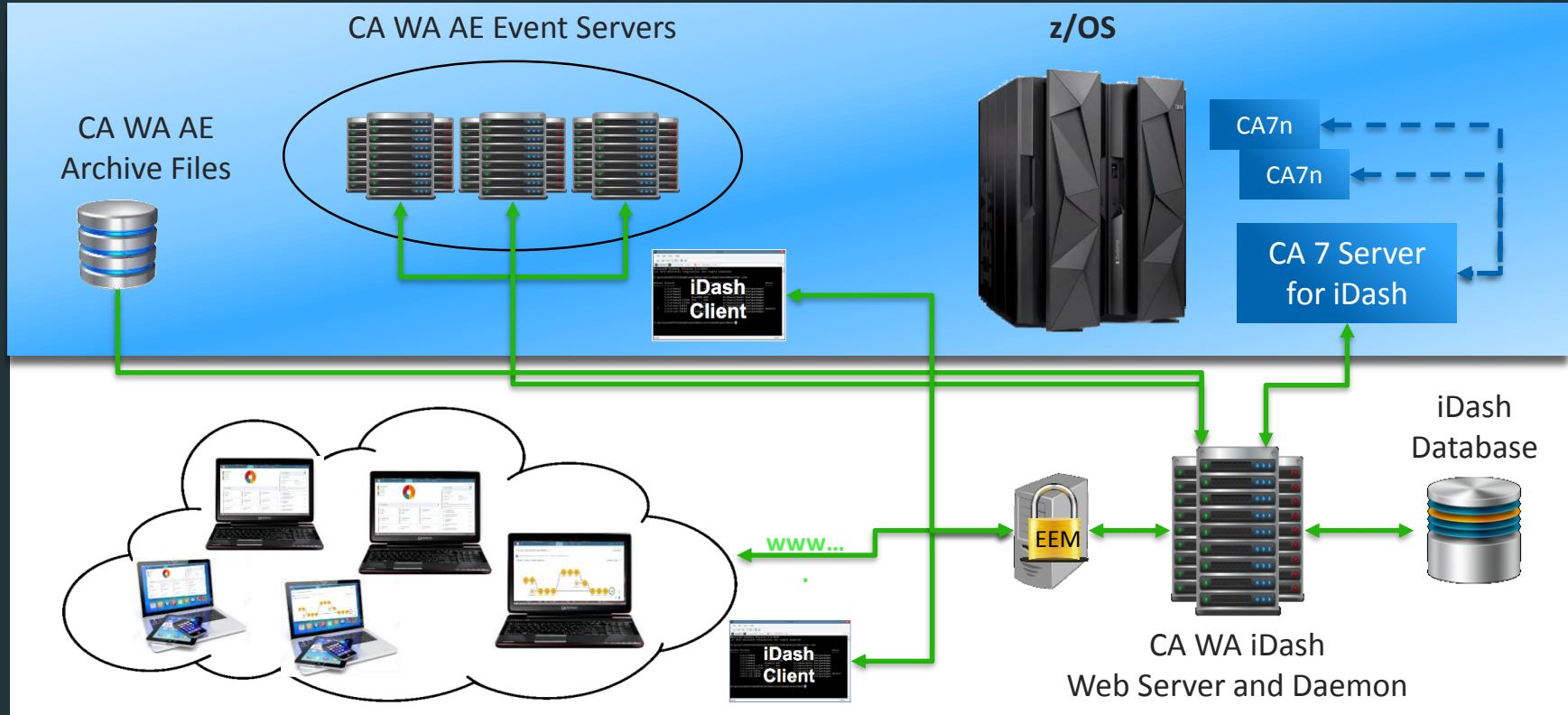


# What is CA Workload Automation iDash

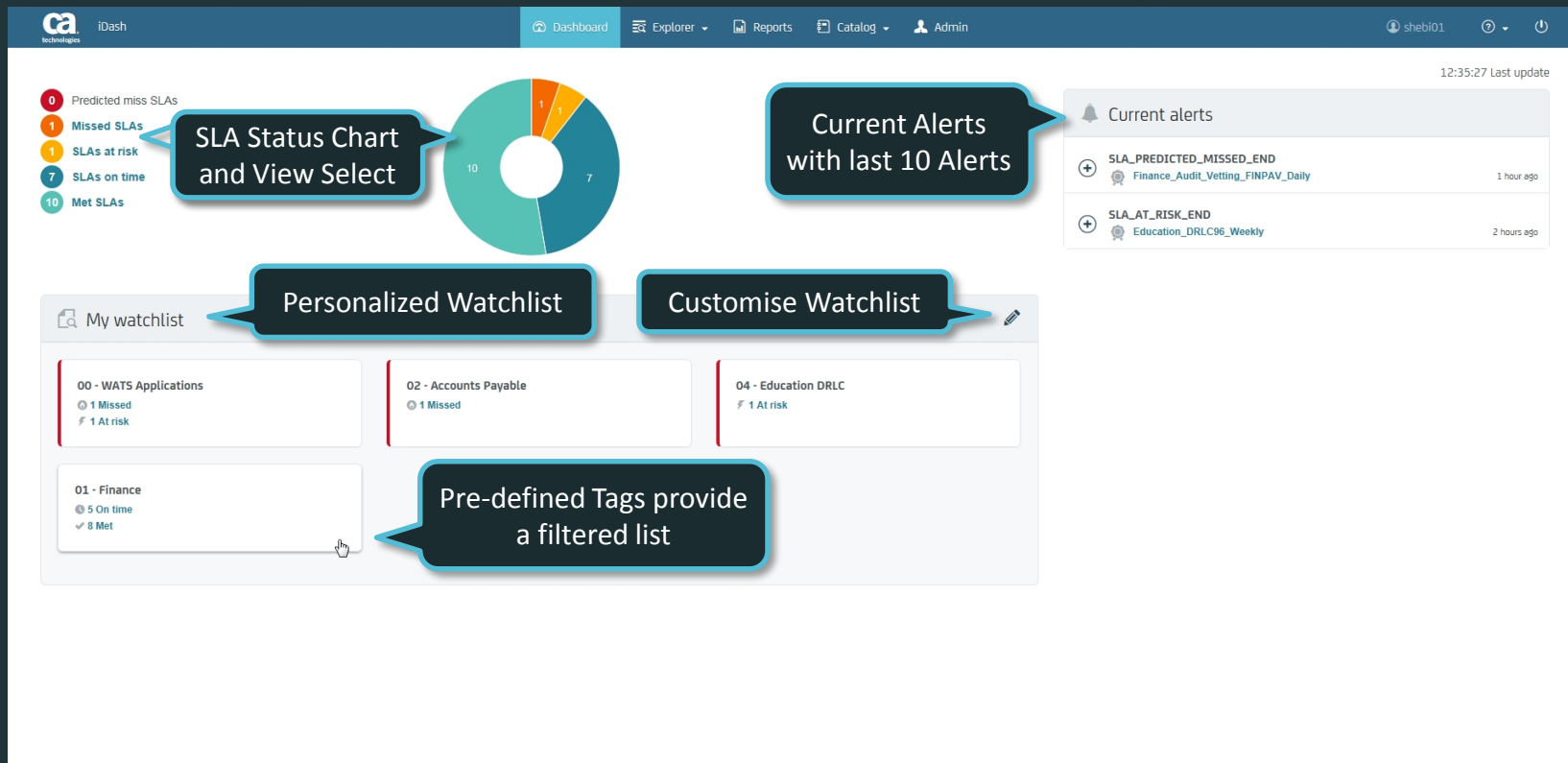
Designed to help you to consistently deliver on your **Service Level Agreements** to the business. It applies advanced **workload analytics in real time** to create an efficient and finely tuned CA Workload Automation environment for CA WA AE (AutoSys™) and CA WA CA 7 managed workloads. Key functionality includes:

- **Predictive forecasting** to determine expected work flow completion times
- **Automatically recognizes work flow changes**, additions and deletions
- **Keeps independent job run times** for daily, weekly, monthly and yearly cycles
- **Maintains the current Critical Path** automatically based on activity
- **Generates Alarms** for At Risk, Predicted Miss and Missed SLAs

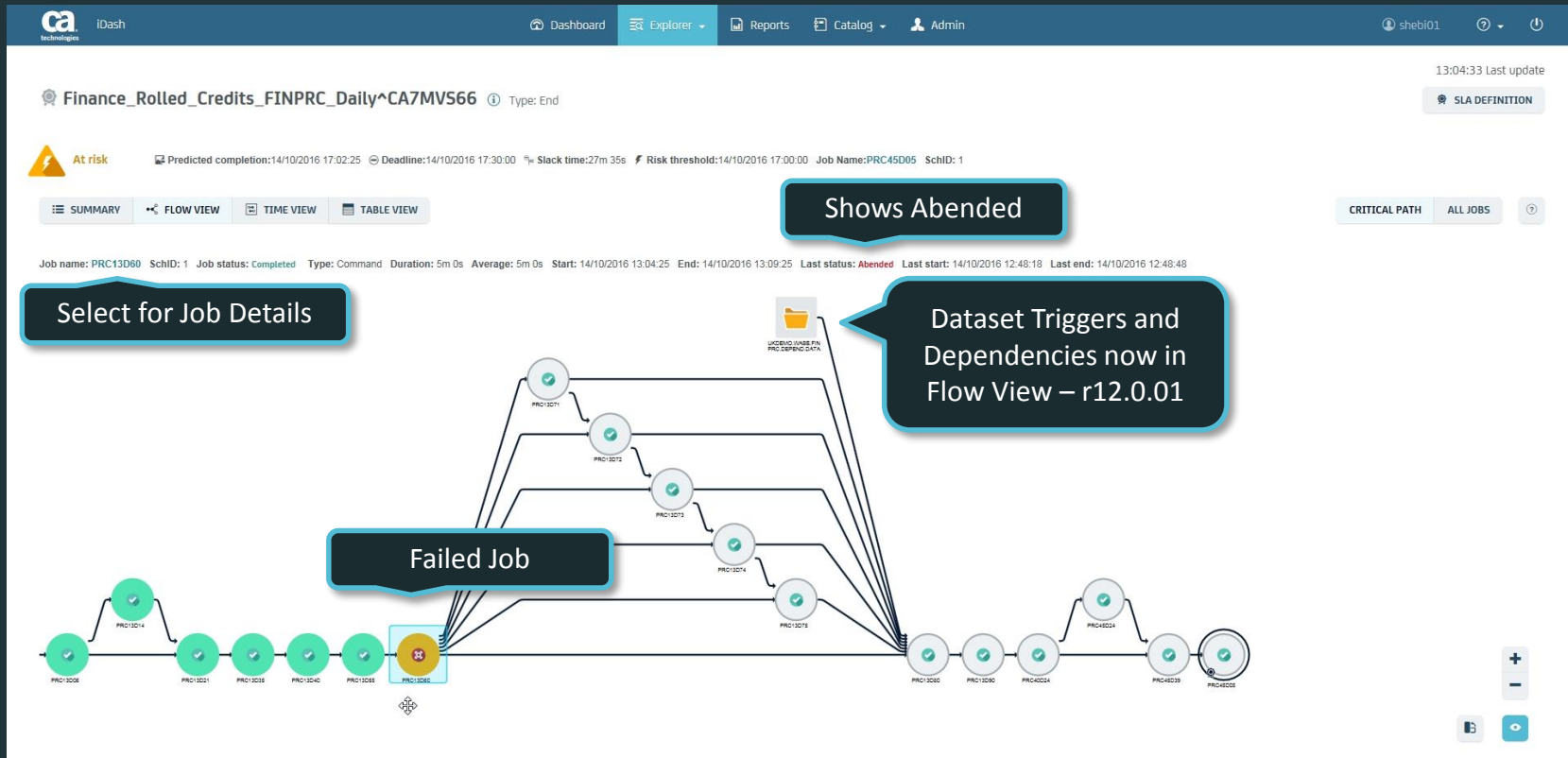
# CA WA iDash Architecture



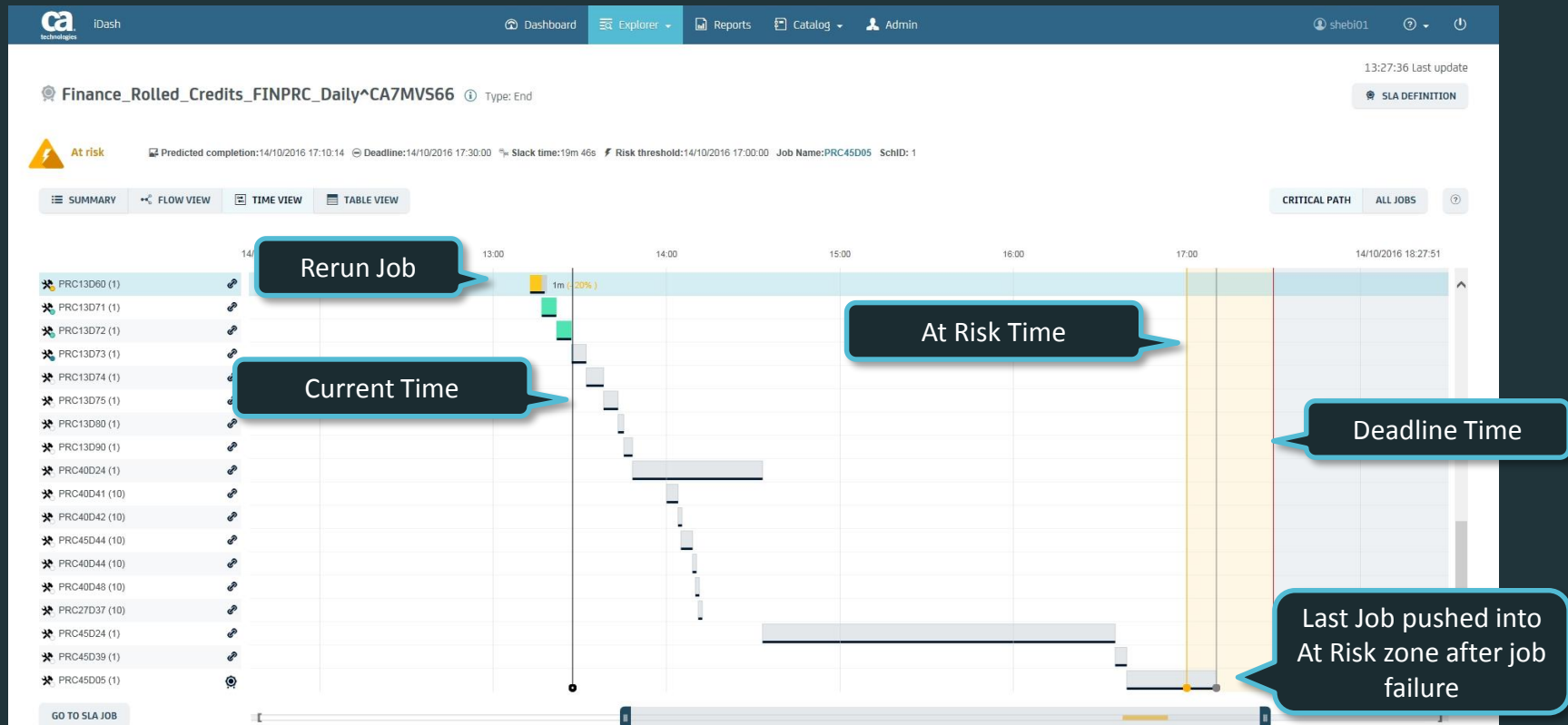
# Using the Dashboard Consolidated View



# SLA Flow View Shows Progress and Failures



# Use SLA Time View for Impact Analysis





# CA WA CA 7 Specific Updates in Incremental r12.0.02

- EEM Authorisation option for Hybrid CA WA iDash environments
- Conditional Dependency support
- Negative Dependency Support (aka MUTEX)
  - Allows wild card format for job names
  - Option to expand Negative Dependency Flows (default False)
- Progressive loading of jobs in SLA Flow View
  - Improves performance for large application flows

# CA WA Agents Update

Enabling Enterprise Workload Automation



# Empowering Customers

Ensuring Flexibility & Success



**EASY ADOPTION**



**LOWER TCO**



**SUPPORT  
MODERN  
STANDARDS**

## VALUE DRIVERS

### Rich User Experience

Manage workloads from any device, anywhere

### Unified Visibility & Control

Enhance IT productivity

### Accelerate Cloud & DevOps

Seamless Integrations to support groundbreaking initiatives

### Centralized Cross-Enterprise scheduling

Any application from anywhere

### Rapid return on investment

Lower total cost of ownership

# Technology and Product Architecture Goals

CA WA Agent

## Technology Goals

- Powerful yet minimal foot print
- Diverse platform and OS support
- Integrate seamlessly with enterprise applications
- Monitoring capabilities (file, process, database)
- Utilize latest security protocols

## Product Architecture Goals

- Rapid deployment
- Minimal resource requirements
- Java – Code once, run anywhere
- Self contained
- Work seamlessly with all CA Schedulers

# Existing Integrations

## System Agents covering:

- ✓ UNIX
- ✓ Linux
- ✓ Windows
- ✓ IBM i5
- ✓ HP Non Stop (Tandem)
- ✓ z/OS

## Agent Integration to:

- ✓ Oracle e-Business Suite
- ✓ PeopleSoft
- ✓ SAP
- ✓ Application Services
- ✓ Web Services
- ✓ Database Management Systems
- ✓ MSSQL
- ✓ Remote Execution

## Advanced Integrations for:

- ✓ Hadoop
- ✓ SAP Solution Manager
- ✓ SAP Business Warehouse



# Countless Valuable Integrations are Possible

Constant Review – no commitment

- ✓ Infrastructure
- ✓ Analytics
- ✓ Applications
- ✓ Databases
- ✓ Platforms
- ✓ Cloud
- ✓ Service Providers
- ✓ Data Sources
- ✓ Monitoring
- ✓ Security
- ✓ Open Source
- ✓ User developed Applications



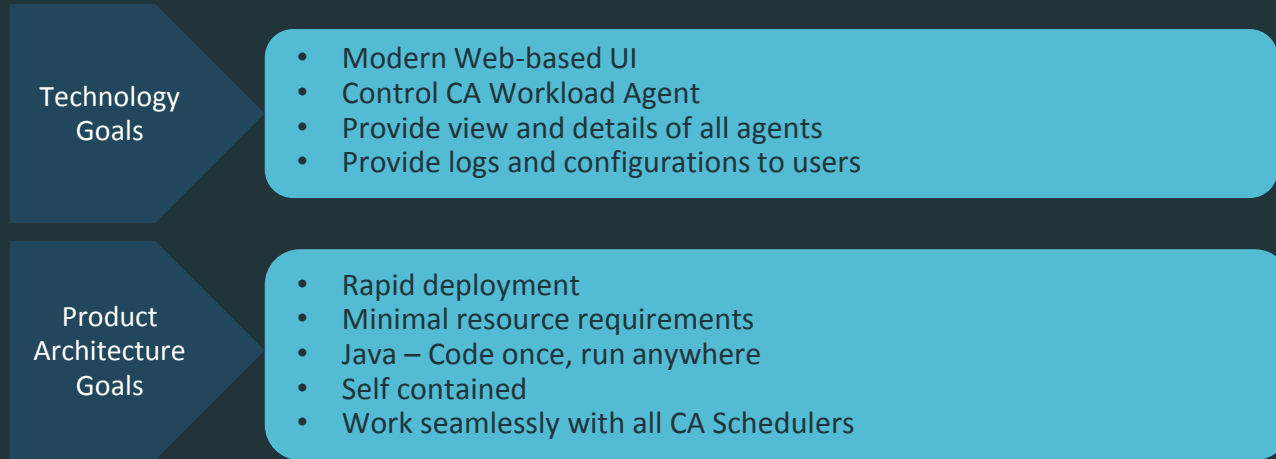
- ✓ **Accelerate Cloud & DevOps** initiatives with integrations to enablers such as
  - ✓ Containers
  - ✓ Microservices
- ✓ Consider **Advanced analytics** on agent servers

# CA Workload Automation Agent Monitor Update



# Technology and Product Architecture Goals

## CA WA Agent Monitor





# Beyond the Agent Monitor

Under Consideration – **no commitment**

- View
- Control
- Install
- Upgrade
- Log Collection
- Authenticated and Authorized Operations
- Activity Audit Log





# Thank You!

# Questions

For more info:

- [docops.ca.com/wlaca7](https://docops.ca.com/wlaca7)
- [communities.ca.com](https://communities.ca.com)
- [support.ca.com](https://support.ca.com)
- [ca.com/wla/ca7](https://ca.com/wla/ca7)