What’s New With Tidal Enterprise Scheduler

June 2016
Agenda

• General Updates on Cisco Workload Automation
• Cisco Workload Automation Customer Advisory Community – Bob Eve
• Cisco Workload Automation 6.3 and Roadmap – Shyam Srinivasan
• New Reporting Options – Terma Insight and Vision – Jim Anderson
• Additional Q&A and Closing Remarks
Webinar Logistics

• Attendees will be placed on mute upon joining
• Please use:
  • Chat panel if you have audio or visual issues
  • Q&A panel to ask questions
  • Poll panel to respond to poll questions
• Session will be recorded for future reference
• Slides will be shared via email after the session
Roadmap & Cautions: Important

• Some of the features described herein remain in varying stages of development and will be offered on a when-and-if-available basis.

• This roadmap and dates are subject to change at the sole discretion of Cisco, and Cisco will have no liability for delay in the delivery or failure to deliver any of the products or features set forth in this presentation.

• Cisco Roadmap Terminology

  Shipping: Feature/functions currently available in the GA version
  Committed: Execution Commit Gate Passed
  Planning: Refining requirements, high level design is in progress
  Radar: Gathering requirements, discussing with analysts & customers
Cisco Tidal Enterprise Scheduler is now Cisco Workload Automation
Cisco’s Commitment to Cisco Workload Automation

Leadership
- 5th Largest Software Company

Talent
- Over 60 Engineers Focused on Cisco Workload Automation
- Global Technical Support 24x7 support model

Quality
- 2x Investment in QA & Automation
- 3 Service Pack Releases on 6.2.1
“Krys Group is very satisfied with the new Cisco TES release 6.2. Our upgrade from release TES 5.3.1 to 6.2 was smooth.”

“Our production platform to produce our product (glasses and lenses), is based on this scheduler.”

- Dider Pavy, KRYS GROUP

“The journey from 6.0 to 6.2.1 has primarily given us an improved performance and a higher availability.”

“Another new functionality we are excited about is the new Transporter Import/Export utilities. We have participated in the beta test with good results.”

- Mogens Hald Kristensen, ALM BRAND
Cisco Workload Automation Customer Advisory Community (CAC)
Customer Advisory Community Program at a Glance

• **Cisco-supported Activities**
  - Steering Committee to guide strategy and plans
  - Dedicated Program Manager and budget to drive engagement
    - Kim Splaine
    - ksplaine@cisco.com
  - Product & Activity Announcements
  - Webinars
  - Regional Workshops
  - Working Groups
  - Surveys on usage, needs, priorities, etc.

• **Online Interactions**
  - Register for / review Customer Advisory Community activities
  - Start discussions with like-minded customers and Cisco
  - Access the Support portal and knowledgebase
  - Access documentation & resources
Customer Advisory Community Website

https://supportforums.cisco.com/community/5711/tidal-enterprise-scheduler
Coming Events

• September 21 – Chicago Regional Customer Advisory Community Meeting
• October 12 – London Regional Customer Advisory Community Meeting
• October 26 – New York City Customer Advisory Community Meeting
• And more…. 
What is new in Cisco Workload Automation 6.3?
Key 6.3 Enhancements at a Glance

• **Hadoop V2 Support**
• **Enhanced Job Development and Migration Support**
• **Java Client**
  o JRE 1.8 support
  o Auto throttling of slow clients
  o Client white listing
• **Audit Log Improvements**
• **Oracle Apps SSL Support**
• **New reporting options from Terma – Vision and Insight**
Automating Workflows in Hadoop
Cisco Workload Automation Hadoop Adapters
DataMover, MapReduce, Hive and Sqoop

Provides a platform for defining end-to-end Hadoop workflows and Scheduling Operations

Allows developers to focus on building Hadoop applications without having to worry about integration challenges

Improves productivity through easy workflow modifications for new experimentations

Big Data Applications such as MapReduce

BI Analytics

Gather Data
Load Data
Process Data
Integrate
Analyze and Distribute

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Hadoop Adapter Enhancements

- Ability to automate big data workflows on multiple Hadoop distributions from a single Cisco Workload Automation instance
- Support for multiple versions of the Hadoop distributions, ex: CDH 4.5 and CDH 5.0
- Integration with YARN for tracking the jobs submitted through Cisco Workload Automation
- Flexible design to support latest versions of HadoopV2 based distributions – CDH 5.x, MapR 5.x, HDP 2.x
Three Simple Steps to Hadoop Automation

**Step 1:** Prepare your Master

Copy the MapReduce, Hive, Sqoop client jar files from your Hadoop distribution into a directory in the Master

**Step 2:** Setup your MapReduce/Hive/Sqoop/DataMover connection

Choose your Hadoop Distribution and the Resource Manager (YARN for Hadoop V2 and Job Tracker for Hadoop V1)

Specify your Name Node, Hadoop User to use for Automation, etc., to complete the connection

**Step 3:** Define your ETL/Analytics workflow and start scheduling
Enhanced Job Development and Migration Support
Enabling DevOps Practices for Workload Automation

- **Source Control**
  - Check in to Source Control
  - Check out from Source Control

- **Development**
  - Import into Development
  - Compare and Validate with Stage

- **Production**
  - Export definitions from Production
  - Release to Production

- **QA/Stage**
  - Import into QA/Stage
  - Validate the workflows
Transporter Enhancements

Transporter has been enhanced to support new modes for Export/Import/Compare/Delta and Delete of Job, Job Groups and Dependent Artifacts.

New CLIs have also been introduced for those that are interested in doing these operations from command line.
Export, Delta, Import, Import Delta and Delete

Source CWA

- Jobs
- Job Groups
- Calendars

Export

File System

- /Export Dir1
- /Export Dir2
- /Export Dir3
- /Export Dir4
- /Export Dir5

Delta

/Delta Dir1

Destination CWA

Import or Delete

- Jobs
- Job Groups
- Calendars

Import Delta

Delta Jobs, Groups, Calendars
Compare and Validate

Source File System

/Export Dir1

Destination CWA

Jobs
Job Groups
Calendars

File System

Compare Report

Compare

Validate Report

Validate
Architecture Update
Cisco Workload Automation 6.3

Standards Based Interfaces
- SSH
- REST/SOAP
- SMTP
- JMS

Java Client

Core Business Logic & HA
- Fault Monitor
- Backup Master
- Primary Master

Client Manager

Fault Monitor

Database (Oracle, MS-SQL)

LDAP

Adapter Host Framework

BI & Database
- JDBC
- Oracle DB
- MS-SQL
- Informatica
- Cognos

Business Objects

Data Center Applications
- SAP
- PeopleSoft
- Oracle EBS
- JDE

Big Data (Hadoop)
- MapReduce
- Hive
- Sqoop
- HDFS

Private & Public Cloud
- VMWare
- EC2
- S3
- UCS Manager

Agents
- Agentless
- UNIX/Linux
- Solaris
- z/OS
- HPUX/AIX
- Tru64
- Windows

Adapters

Client Manager

Self Service Portal

Mobile App

UI – Browser Based (IE & FF)

CL/Transporter

Standards Based Interfaces

Adapters

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CL/Transporter
API and Database Schema Changes

• Remains same as that of TES 6.2
• JAWS integration through API and DB will continue to work seamlessly
6.3 Upgrade and Migration

Hardware specs for CWA 6.3 will be same as CWA 6.2

Supported versions for Inline Upgrade & Migration
- tomodachi 5.3.1 to CWA 6.3 (Inline Upgrade if h/w specs are met / Migration)
- 6.1 to 6.3 (Inline Upgrade / Migration)
- 6.2.1 SP3 to 6.3 (Inline Upgrade / Migration)
How We Can Collaborate on Future Releases?

- Contribute to “Working Groups” on
  - Big Data
  - Cloud Sources
  - Dev Ops

- Submit enhancement requests via Support
Reminder: TES 5.3.1 and 6.1 EOL Milestones

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<td>July 31, 2016</td>
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<tr>
<td>Tidal Enterprise Scheduler 6.1</td>
<td>July 31, 2016</td>
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Quotes from customers who recently migrated:

• “I used tech support to rehearse a solid upgrade procedure in test. They were instrumental in getting me through the test upgrade. The production upgrade was conducted without issue.”

• “The overall experience was as smooth as could be expected. BlueHouse and CISCO were quick to respond and address issues/questions.”
New Reporting Options
Q&A and Closing Remarks
Agenda Review

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Next Steps

• Cisco Workload Automation 6.3
  ✓ July/August – Plan your migration
  ✓ September/October – Start your migration

• Customer Advisory Community
  ✓ June – Check out https://supportforums.cisco.com/community/5711/tidal-enterprise-scheduler
  ✓ September 21 – Chicago Regional Customer Advisory Community Meeting
  ✓ October 12 – London Regional Customer Advisory Community Meeting
  ✓ October 26 – New York City Customer Advisory Community Meeting
  ✓ And more based on your survey feedback
Key Contacts

- Kimberly Splaine (ksplaine@cisco.com) – Customer Advisory Community
- Peter Tran (petetran@cisco.com) – Product Marketing
- Shyam Sundar Srinivasan (shysrini@cisco.com) – Product Management
- Rick Kane (rikane@cisco.com) – Americas Sales
- Anna-Sophie Francke (anfranck@cisco.com) – EMEAR and APJC Sales
- Brad Houston (brhousto@cisco.com) – Technical Support Management
CISCO

TOMORROW starts here.