

Getting Started with Cisco Tidal Enterprise Scheduler 6.2

May 2014

Meeting Logistics

- Attendees will be placed on mute upon joining
- Please use the Chat panel if you have any technical difficulties with audio or in viewing the presentation
- Please use the Q&A panel to ask questions
- Session will be recorded for offline reference
- Slides used in this session will be shared over email after the session

Agenda

TES 6.2 Updates

What's new in TES 6.2 TES 6.2 Early Field Trial Update

Architecture Update

Recap on TES 5.3.1 to 6.1 Architecture Changes TES 6.2 Architecture Changes

Planning your TES 6.2 Implementation

TES 6.2 Infrastructure Requirements Upgrade/migration scenarios

Best Practices and Recommendations

Reference documents

Key Takeaways

TES 6.2 Updates

TES 6.2 Release Drivers

- Expand on Private and Public Cloud Automation capabilities with a new adapter for UCS Manager
- Improve performance and user experience of the web application
- Address key enhancements to meet large organizational needs
- Provide a Java client to deliver desktop client performance

What is new in TES 6.2

New Adapter and Updates

- > UCS Manager Adapter stop/start, restart
- > Roll-up of support for latest versions

Lightweight Web-deployable Java Client Web Client Perf & Usability Improvements

Transporter Improvements

Support for multi-domain AD/LDAP authentication

Runtime users for TES workgroups

Ability to terminate user sessions

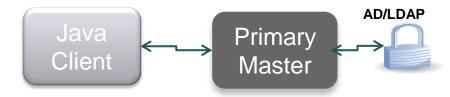
CM install process to utilize external cache API Guide Update

	File View	Activities F	Reports Help Ter	di	Mark .	Active	Owned			_	
				and the second se	C		0	0			_
	V Operation	ons	5	Refresh Search	😂 Print		Rt Copy	X Delete		ords (Filtered)	eards.
	Revent a		in the second	Name ¥	6	ld	Type	Owner	Modified	Calendar	9
	Alerts		•	AAAA CSCI160.865		24476	GROUP		09/20/2013 10:49:46 07/25/2011 14:47:53		
	af Logs	÷		DB2 IPAK TEST		23218	ADAPTER		01/08/2012 12:47:14		OPAK I
	Master			TEPROD - DAILY AM2 I	EDI EMDEON	24389	JOB		10/13/2013 20:32:37		sleep
	V Definitio			FEPROD - DAILY AM2.			108		10/08/2013 12:18:53		sleep
	HI JOBS			groupster		24466	GROUP		09/24/2013 16:45:02		
	Calend			PAK_IO8		24463	ADAPTER		09/25/2012 17:32:38		ZPAK, J
	Kei Action Kei Action		+ (G) ;			23246	GROUP		06/21/2012 15:18:02		
	Job Cla	asses		dbc:select_nodmst mssqtsimple		23233 24429	ADAPTER		09/01/2011 01:11:03 04/06/2012 12:53:58		select
	Wariab		(2)	MULTI-STEP		22969	ADAPTER		08/23/2010 23:17:50		BTCTE
	► 3 Agent			odb dbiob		611	ADAPTER		01/21/2010 16:57:52		
	Queue Resour			odb.guery		610	ADAPTER		10/03/2013 16:32:55		
	Fiscal		(2)	odb short_job		23203	ADAPTER		05/03/2011 15:12:02		
	🔻 🛠 Adminis	tration		odbjob 1		23211	ADAPTER		06/03/2011 16:37:03		
	Se Conne			oracleapps.test		23256	ADAPTER		01/08/2012 12:16:59		
	C Login	Users		oracledb		466	GROUP		01/10/2010 15:38 25		
	LDAP (4 4	DracleGroup PCHAIN		23223	GROUP		08/08/2011 10:51:20 01/19/2012 08:55:10		TEST P
	Workg	roups		PCHAIN-DB2		24387	ADAPTER		02/17/2012 18:05:23		OTCT O
	Securit	ty Policies		DX2_BTCTEST		24367	ADAPTER		12/21/2012 14:28:17		BTCTES
	- Adapte	ers		QK2_RSWATCH0		23258	ADAPTER		01/08/2012 17:10:39		RSWAT
					Job						M
Program S	Parent G	Class roup Run	Depender	ncies Job Ev	vents (Options I	Run Book	Owner Notes			•
Program S Calendar Calendar	Parent G	roup	Depender	ncies Job Ev		Options I	Run Book	Notes	set 0		
Calendar	Parent G	Run		ncies Job Ev	vents (Options		Notes	set 0 Forecast		
Calendar	Parent G Schedule r Name	Run		icies Job Ev	vents (Notes			
Calendar Calendar	Parent G Schedule r Name	Run M/d/y	Υ.	Timez	vents (to M			Notes	Forecast		
Calendar Calendar	Parent G Schedule r Name	Run M/d/y	Υ.		vents (to M			Notes	Forecast		
Calendar Calendar	Parent G Schedule r Name	Run M/d/y	y e job betw	Timez	to M to M cone	//d/yy	·	Notes	Forecast		
Calendar Calendar	Parent G Schedule r Name	Run M/d/y	y e job betw	Timez een the hour	to M to M cone	//d/yy	·	Notes	Forecast		
Calendar Calendar Time Window	Parent G schedule r Name (From Only s	Run M/d/y start th If r	y e job betw not ready b not repeat	Timez een the hour y the end of	to M to M cone	//d/yy	·	Notes	Forecast		
Calendar Calendar Time Window Repeats	Parent G schedule r Name (From Only s	Run M/d/y start th If r	y e job betw not ready b	Timez een the hour y the end of	to M to M cone	//d/yy	·	Notes	Forecast		
Calendar Calendar Time Window Repeats	Parent G schedule r Name (From Only s	Run M/d/y start th If r Do r	y e job betw not ready b not repeat new occur	Timez een the hour y the end of eence	to M to M cone	//d/yy	·	Notes	Forecast		
Calendar Calendar Time Window Repeats	Parent G schedule r Name (From Only s	Run M/d/y start th If r Do r	y e job betw not ready b not repeat	Timez een the hour y the end of eence	to M to M cone	//d/yy	·	Notes	Forecast		
Calendar Calendar Time Window Repeats After job exe	Parent G schedule r Name (From Only s	Run M/d/y start th If r Do r	y not ready b not repeat new occur un same oc	Timez een the hour y the end of eence	to N to Sone day	//d/yy Run agal	·	Notes Off	Forecast		
Calendar Calendar Time Window Repeats After job exe	Parent G schedule r Name (From Only s ecution (Run M/d/y start th If r Do r	y not ready b not repeat new occur un same oc	Timez een the hour y the end of ence currence	to N to Sone day	//d/yy Run agal	• C	Notes Off	Forecast		
Calendar Calendar Time Window Repeats After job exe	Parent G schedule r Name (From Only s ecution (Run M/d/y start th If r Do r	y not ready b not repeat new occur un same oc	Timez een the hour y the end of ence currence 4) minute	to M cone rs of day e(s) 1	//d/yy	• C	Notes Off	Forecast		
Calendar Calendar Time Window Repeats After Job exc	Parent G schedule r Name (From Only s ecution (Run M/d/y start th If r Do r	y not ready b not repeat new occur un same oc	Timez een the hour y the end of ence currence	to M cone rs of day e(s) 1	//d/yy Run agal	• C	Notes Off	Forecast		

TES 6.2 EFT Update

- TES 6.2 Early Field Trial a program to solicit early customer feedback
- Select customers and partners were invited to participate
- Program ran for 6 weeks and close to 25 unique issues were reported
- Engineering scrubbed the reported items and critical items are getting fixed for GA release
- Key Improvements based on EFT feedback:
 - ✓ Java Client data reading has been optimized to reduce memory and initial load time
 - ✓ Solution for RPC error on the web client

TES 6.2 Java Client



- Connects directly to the Master through the same APIs that CM uses
- The Java client also syncs data from the Master, but it is many times faster than the CM because all data is stored into memory rather to an external database. Most DBs syncs within seconds
- Smooth scrolling with zero latency since data is rendered from memory (i.e. no paging delay)
- Faster search and filtering as well since data is queried from memory instead of remotely from an external database
- Can run as a standalone Java app or run through a browser, such as Firefox, IE
- Java client updates will be deployed through the Master
- Java client requires JRE 1.7 and above

"I also want to mention that the Java client is working very good. It's as fast as the 5.3.1 thick client, if not faster." - Feedback from EFT "The agent list window is vastly improved. The FX client is much, much, faster than the web client" - Feedback from EFT

TES 6.2 Java Client Baseline

Job Definition	Sub Tasks & Number of Records	5.3.1 (40K records)	6.2 Java Client (56K records)	Job Activities	Sub Tasks & Number of Records	5.3.1 (40K records)	6.2 Java Client (50K records)
Expand All	 25K records 50K records	0-1 sec	0-1 sec 0-1 sec	Expand All	 25K records 50K records	0-1 sec 0-1 sec	0-1 sec 0-1 sec
Collapse All	 25K records 50K records	0-1 sec	0-1 sec 0-1 sec	Collapse All	 25K records 50K records	0-1 sec 0-1 sec	0-1 sec 0-1 sec
Scrolling (with 25 K)	Top to BottomBottom to Top	Instantan- eous	Instantan- eous	Scrolling (with 25 K)	Top to BottomBottom to Top	Instantan- eous	Instantan- eous
Scrolling (with 50 K)	Top to BottomBottom to Top	Instantan- eous	Instantan- eous	Scrolling (with 50 K)	Top to BottomBottom to Top	Instantan- eous	Instantan- eous
Filter	 Show Group Unchecked Show Groups Checked 	0-1 sec 0-1 sec	0-1 sec 0-1 sec	Filter	 Show Jobs (Expanded) Show Jobs (Collapsed) 	2-3 sec 1-2 sec	0-1 sec 0-1 sec
© 2013-2014 Cisco ar	nd/or its affiliates. All rights reserved.				Show GroupsShow Jobs & Show Groups	1-2 sec 1-2 sec	0-1 sec 0-1 sec

pplication View Activitie	s Reports Help					
	sjc-tesqe-auto1.tidalsoft.local[Backup] 90 Wait		24% qatest (T) Overall Mon 12, 2014	IDALSOFT) 03:08 PM		LISCO Schedule
) operations	🧭 Refresh 🛛 🚭 Print 🕅 🕅 Add	🛛 🧷 Edit 🗍 🗶 Delete	_	_	70 Reco	rds Search
Job Activity	Name V	Machine	Туре	Platform	Enabled	Modifie
Ma Event Activity	BO Adapter[BusinessObjects]	HOU-BOE-01	Adapter Service	BusinessObjects	Yes	12/12/2013 10
Alerts	 BO BIP Adapter - sjc-bo4-ga1[BO 		Adapter Service	BO BI Platform	Yes	03/15/2014 03
🔄 Logs	BO Ds Adapter BusinessObjects DS	2 I	Adapter Service	BusinessObjects DS	Yes	12/11/2013 02
Schedules Master Status	BOBIP - sjc-bo4-ga3[BO BI Platform		Adapter Service	BO BI Platform	Yes	04/03/2014 01
Definitions	Cognos Adapter[Cognos]	sjc-cognos-10:9300	Adapter Service	Cognos	No	02/25/2014 1
 Jobs 	cognos-10-02[Cognos]	cognos-10-02.tidalsoft.lo	Adapter Service	Cognos	Yes	07/24/2013 0
Calendars	DEV13/SAP[SAP]	hpdev13/001/*	Adapter Service	SAP	Yes	04/02/2014 0
Actions	 dv3csf.cisco.com - OracleApps[Ora. 		Adapter Service	OracleApps	No	04/18/2014 1
Ævents	EC2 Adapter[AmazonEC2]	http://ec2.us-west-1.ama	Adapter Service	AmazonEC2	No	01/22/2014 0
💣 Job Classes	 EC2 Adapter - conn2[AmazonEC2] 	http://ec2.us-west-1.ama	Adapter Service	AmazonEC2	No	07/17/2013 1
💴 Variables	: Email Adpater[Email]	TIDAL-MAIL-00.tidalsoft.l	Adapter Service	Email	Yes	12/13/2013 0
🕨 📳 Agent Lists	Example Connection[Windows]	10.99.134.132		Windows	No	12/13/2013 0
📲 Queues	Hive Adapter - conn2[Hive]	172.25.6.136	Agent Adapter Service	Hive	Yes	04/09/2014 1
Resources						
🙀 Fiscal Calendars	Hive Adpater[Hive]	172.25.6.136	Adapter Service	Hive	No	02/13/2014 0
X Administration	Horizon Adapter[null]	pal-mikepc3	Adapter Service	I-fti	Yes	08/02/2013 0
Connections	Informatica[Informatica]	[Domain_sjc-q9-wvm3/rs	Adapter Service	Informatica	Yes	03/14/2014 1
Login Users Runtime Users	JDBC Adapter[JDBC]	sjc-tesqe-auto1.tidalsoft.l	Adapter Service	JDBC	Yes	04/02/2014 0
LDAP Groups	JDE 9.1[JDEdwards]	172.21.46.114	Adapter Service	JDEdwards	No	02/13/2014 0
Workgroups	JDE-898[JDEdwards]	jde-898-002.tidalsoft.local	Adapter Service	JDEdwards	Yes	08/29/2013 0
Security Policies	DE898 - SJC-JDE898[JDEdwards]	SJC-JDE898.tidalsoft.local	Adapter Service	JDEdwards	Yes	05/20/2013 02
🔺 Images Repository	JMS Adapter[JMS]	t3://sjc-weblogic-01.tidal	Adapter Service	JMS	No	02/13/2014 03
🔺 Adapters	MPE Connection[MPE/iX]	machine name	Agent	MPE/iX	No	10/22/2013 04
	MSSQL Adapter[MSSql]	jdbc:sqlserver://sjc-tesqe	Adapter Service	MSSql	No	04/02/2014 03

Java Client Release Phases

TES 6.2 GA (Phase 1)

- Administrative Screens
- Operations Screens
 - Job Activities
 - Events
 - Alerts
 - Logs
 - Master Status
 - Schedules
- Definitions
 - Job Definitions
 - Calendars
 - Actions
 - Events
 - Job Classes
 - Variables
 - Agent Lists
 - Queues
 - Resources
 - Fiscal Calendars

- Agent Jobs
- JDBC Adapter
- Web Services Adapter
- Business Objects DS Adapter
- MS SQL DB Adapter
- SSH Adapter
- Data Mover
- HP Open View
- Informatica Adapter
- SAP Adapter
- Cognos Adapter
- Email Adapter
- JMS Adapter

Post TES 6.2 – July Drop (Phase 2)

- Business Views
- Reports
- Amazon S3 Adapter
- PeopleSoft Adapter
- UCS Adapter
- Business Objects BI Adapter
- Business Objects Adapter
- JDE Adapter

- Oracle Apps Adapter
- Oracle DB Adapter
- Amazon EC2 Adapter
- VMWare Adapter
- Hive Adapter
- Sqoop Adapter
- Map Reduce Adapter
- Remote Job Adapter

What does this mean?

 Users can continue to view and monitor the jobs for even the adapters that are not supported in Phase 1. However, they won't be able to edit the jobs as the Adapter specific Tab in the Job Definition and Job Activity console will be missing

JDEdwards Job Definition (JDE-JOB100)		JobRun			- • ×
Job Name JDE-JOB100		Job Name	JDE-JOB100 (1)	Job No. 28064	
Job Class		Status Audit Log Ou	tput Dependencies Resources Override	Runbook Notes History	JDEdwards Job Rt 💌
Parent Group		Current Status			
JDEdwards Job chedule Run Dependencies Resources Job Events Options Run Book Notes History Images			Completed Normally		
Calendar	Inherit	Estimated Start Time	04:16 PM (Today)		
Calendar Name		Actual Start Time	04:16 PM (Today)		
From M/d/yy to M/d/yy Forecast	Inherit	Estimated Duration	30 sec(s)		
Timezone		Actual Duration	1 sec(s)		
Start job between 🕜 and		Job Owner	qatest (TIDALSOFT)		
If not ready by time window 📃 Run again tomorrow		Scheduled By	On Demand		
Repeats		Exit Code	0		
After job execution Do not repeat Run new occurence		External Id	6681		
Rerun same occurrence		Reruns	0		
Repeat every 1 🗘 Minute(s) 1 🗘 time(s)			Disable Carryover		
I Enabled Last Modified.0:	13/2014 15:39:07	Print Defaults			
Ok Cancel Help			Ok Car	Help	

Web Client will continue to have full support for all the adapters

Web Client Improvements

- Configurable option for Auto refresh interval
- Bulk operation improvements (operation tune up as well as UI feedback)
- JVM tuning on Client Manager
- Optimized Client Manager data layer and UI components in Job Definition and Job Activity screens for:
 - Expand All (one-click expand)
 - Collapse All (one-click collapse)
 - Scrolling (optimized load on DB)
 - Filtering (optimized query and fixed some known bugs)

Note: These data layer optimizations are applicable only for <u>external</u> Client Manager database (Oracle/MS SQL Server)

"The Web client is much better than previous versions"

- Feedback from EFT

TES 6.2 Web Client Performance Baseline

Job Definition – 30K Records (in Seconds)	6.1 Baseline	6.2 Baseline	% Improvement
Page Load	13.7	5.9	133%
Select All	7.6	3.2	138%
Expand Selected	16.9	2.2	668%
Expand all	585	5.1	11371%
Refresh	12.1	8.5	42%
Scroll from Top to Bottom	897	4.7	18985%
Scroll half way down	393	6.5	5918%
Scroll Bottom to Top	390	5.9	6510%
Collapse	1046	2.7	38641%

Job Run/JAC – 30K	6.1	6.2	% Improvement
Records (in Seconds)	Baseline	Baseline	70 Improvement
Expand All	5.7	2.9	97%
Collapse All	170	1.9	8847%
Scroll from Top to Bottom	8.7	4.2	107%
Scroll from Bottom to Top	7.9	4.3	84%

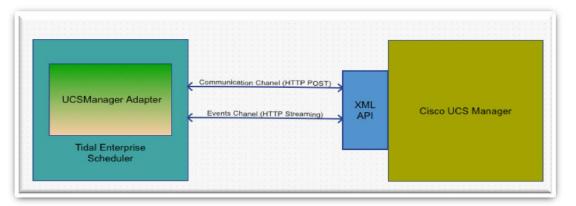
Transporter Improvements

- Parallel Read read time optimized
- Optimized Data Validation
- Lot of usability enhancements and bug fixes

Transaction (Time in Seconds)	6.1 Baseline	6.2 Baseline	% Improvement	
Reading data	543	236	130%	Achieved with parallelism and tuning post read operations
Transporting First (1) Job	4264	115	3608%	Job has dependency depth level=184
Transporting 15 jobs	9032	640	1311%	Complex jobs (nested dependency)

UCS Manager Adapter

UCS Manager Adapter integrates with UCSM 2.0 through XML API



Power up UCS Server	Power up a UCS server using the service profile associated with it
Power down UCS Server	Power down a UCS server using its service profile.
Reset UCS Server	Reboot a UCS server blade associated with a service profile.

Adapter for UCS Manager

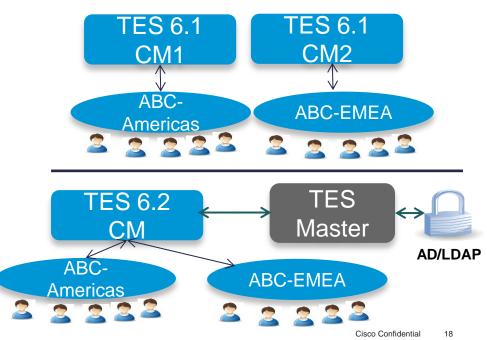
Connection Definition (Edit Mode) [UCSM - ia-ucs-400 -	HTTP[UCSManager]]	? 🗆 🗙
UCSManag	jer Adapter	OK
Name UCSM - ia-ucs-400 - HTT	P	Cancel
General UCSManager Connection Options Outage	5 Description	
UCS Manager Host Name ia-ucs-400.tida	Isoft.local	
UCS Manager User Tidalsoft\eurib		
Port 80	UCSManager Job Definition [u	csm - shut graceful-chassis1[\aUCSM - ia-ucs-400 - HTTP]] ? 🗖 🗴
Port 00	UCSManager Job Na	me OK
	Job Cl	ass v Owner euribe v Cancel
т	Parent Gro	VaUCSM - ia-ucs-400 - HTTP
		Run Dependencies Resources Job Events Options Run Book Notes History Images 005
UCS Manager User need to have the foll	Category	
Server Equipment	Action 🔮	Job Name boot - chassis-2/blade-8 (2) Job No. 3663 OK
Server Maintenance	<u> </u>	Status Audit Log Output Dependencies Resources Override Runbook Notes History UCSManager Run Info Cancel
Server Policy	Server Dn S	Refresh output
Service Profile Config	Server Profile Dn 0	Run: 1
Service Profile Config Policy	Management Tree Paran	
Service Profile Ext Access	⊿ 🛱 Equipment	Request Sent To Server
Service Profile Server	∠quipment ∠ ♥ Chassis	
Service Profile Server Oper	4 🗢 Servers	<configconfmos cookie="Not Shown" inhierarchical="false"><inconfigs></inconfigs></configconfmos>

Multi-domain AD/LDAP Authentication

With TES 6.2, a single instance of Client Manager and Master can be configured to authenticate users across multiple AD/LDAP domains

Example: If ABC-Americas and ABC-EMEA are two geographic AD domains then with TES 6.1 they need to have two instances of Client Managers (say CM1 and CM2). CM1 is configured to authenticate users in ABC-Americas and CM2 is configured to authenticate users in AMC-EMA

TES 6.2 addresses this through central authentication mechanism



Runtime User Support for TES Workgroups

- A new "Runtime Users" tab is added to the Workgroup definition dialog where runtime users can be associated with the workgroup
- Members' runtime users can be used by the workgroup
 - When checked all the members of the Workgroup can leverage the Runtime users selected in this tab for job definitions
 - When unchecked only the runtime users specifically assigned to the members can be used in jobs owned by the workgroup
- The equivalent of the legacy behavior is to have "Members' runtime users..." checked and to have no additional runtime users selected

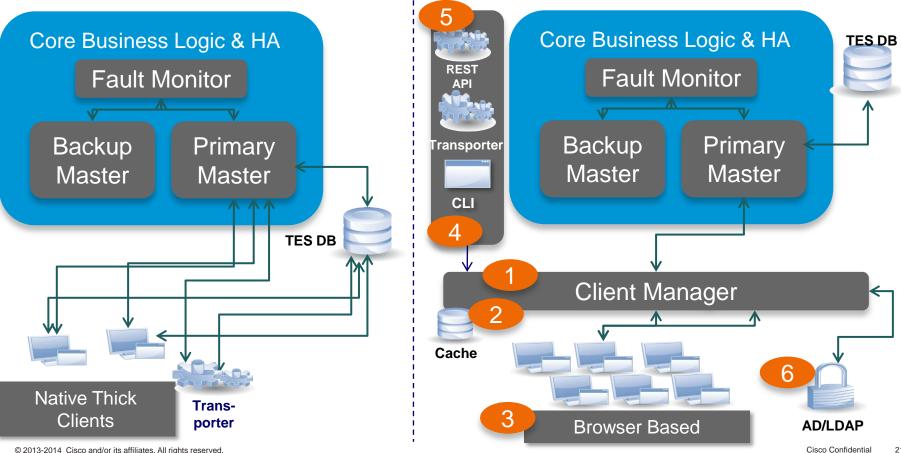
Work	Group Name	Schedule	ers				ОК
Owne	r	dsimont	on			-	Canc
User	s Groups Runt	time Users	Agents	Description			
Sho	w Users	Show	Groups (Windows)			
	tidalsoft\emily]
	tidalsoft\harold						
	tidalsoft\james						
	tidalsoft\jdoe						
	tidalsoft\percy						
	tidalsoft\thomas						
	root						
	superduper						
—	a h l				!		-
	Aembers' runti	me users	can be u	isea by the w	огкдгоир		

"This is huge...We will definitely assign runtime users only at the group level." - Feedback from EFT

Architecture Update

TES 5.3.1

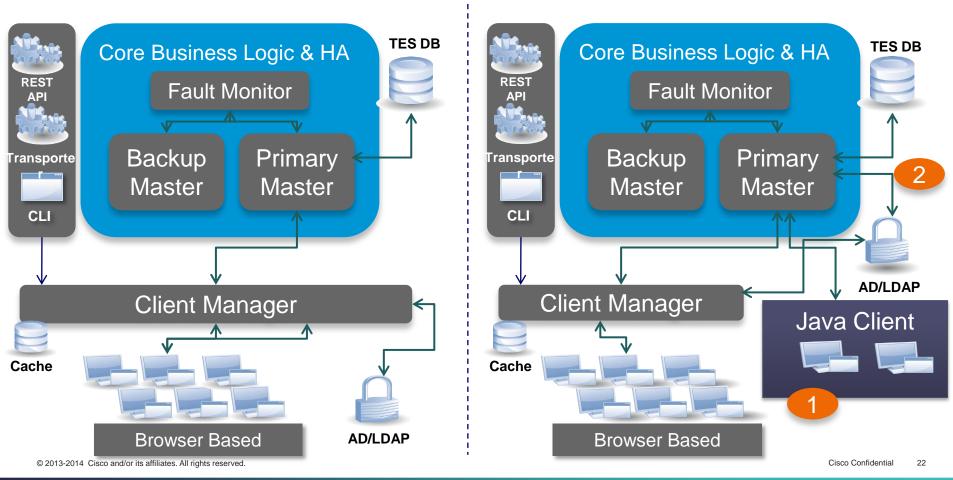


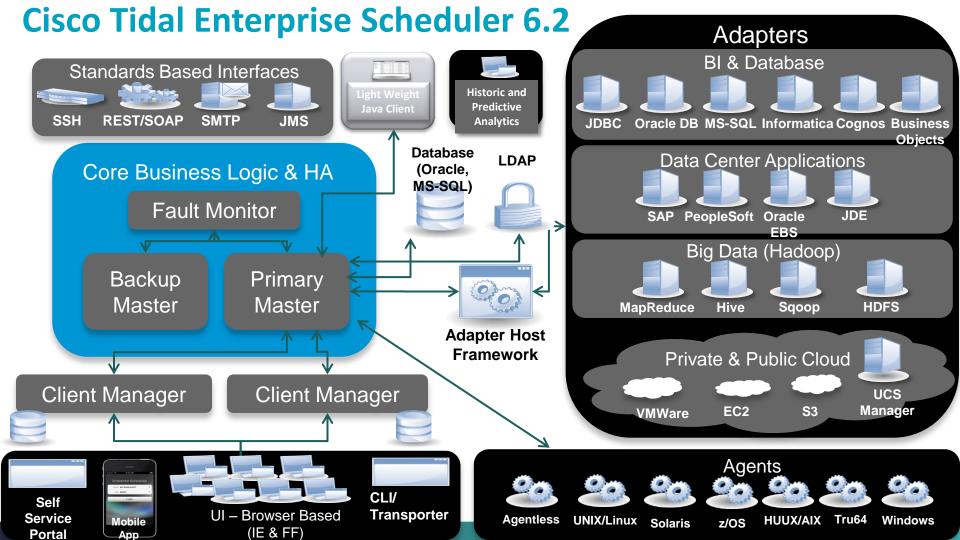


© 2013-2014 Cisco and/or its affiliates. All rights reserved.

TES 6.1

TES 6.2





Planning Your TES 6.2 Implementation

TES 6.2 Software Specifications

- All of the TES components require Java 1.7 and above
- Supported OS for Master, Fault Monitor and Client Manager

HPUX	11.23, 11.31
Solaris	9, 10
AIX	6.1, 7 and 7.1
	Server 2008 (Standard + Enterprise), Server 2012 (Standard)
Windows	Server 2012 R2 (Standard)
RHEL	Redhat Enterprise Server v5, v6 (64 bit)
Cent OS	v5, v6
SUSE	SUSE Enterprise Server v11, v11.3
Oracle Enterprise Linux	v5, v6
VMWare	ESX/ESXi 4.0, 5.0, 5.1

- Supported Platform for Transporter (64 bit) Windows 7, Windows 2008
- Supported Browsers IE 10, FF 24 (recommended FF 20)

TES 6.2 Hardware Recommendations

Configuration Definition

	Jobs Definition	DB Size	Concurrent Users
Small	1 – 3000	< 4 GB	5 - 10
Configuration			
Medium	3,000 - 20,000	< 16 GB	10-20
Configuration			
Large	20,000 and less	> 32GB	50-100
Configuration	than 100 K		

Master Configuration

Master Configuration	Memory	CPU Cores	
Small	8GB	4	
Medium	16GB	8	
Large	24GB	16	

<u>Note:</u> For each adapter instance use the following guidelines for RAM allocation:

- o 1 GB of extra RAM for Small and Medium configurations
- 2GB of extra RAM for Large configuration

Master and Client Manager DB

Minimum size required by Master and Client Manager Databases:

- MS SQL Server: 128 MB Data, 32 MB Log
- Oracle: 400 MB Data, 300 MB Index, 200 MB Temp

As the number of jobs or logs increases, DBA should tune the DB accordingly

Client Manager Configuration

Client Manager	Memory	CPU Cores
Configuration		
Small	12 GB	8
Medium	24 GB	16
Large	32 GB	24

TES 6.2 Hardware Recommendations Contd.,

Java Client Configuration

Transporter Configuration

Java Client	Memory	CPU Cores	
Small	4 GB	4	
Medium	8 GB	4	
Large	12 GB	8	

Transporter	Memory	CPU Cores	
Small	8GB	4	
Medium	12GB	8	
Large	16GB	12	

<u>NOTE:</u> All Memory & Disk requirements are for TES related components and doesn't include any OS requirements

Upgrade/Migration Scenarios

Supported versions for Upgrade & Migration

- 5.3.1 to TES 6.2 (In line Upgrade if h/w specs are met / Migration)
- 6.0.3 to 6.2 (In line Upgrade / Migration)
- 6.1 to 6.2 (In line Upgrade / Migration)

High level check list

- Run a readiness assessment to check if your environment meets the recommended hardware and software configurations
- ✓ Make backups of all systems/databases/etc
- ✓ Engage TAC/Services to learn of any hotfixes/patches of interest
- ✓ Do early testing on a non-production environment first
- ✓ Upgrade all TES agents must be TES 3 agent for TES 6x
- ✓ Engage directory services team for AD/LDAP information
- Limit your history retention prior to the upgrade best practice is 30 days of historical information online

Use Cisco Services or one of our recommended 3rd party partners for 5.3.x to TES 6.2 upgrade/migration

© 2013-2014 Cisco and/or its affiliates. All rights reserved.

Cisco Advanced Services for Tidal Enterprise Scheduler

TES Service Offerings

Pre-Implementation Planning & Implementations

- Traditional Implementation Services
- Conversions and Migrations
- Customized Integrations and Solutions
- Business Process Analysis, Design & Re-engineer

Comprehensive Upgrade Services

- Enterprise Scheduler
- Solution Connectors to Adapters

TES Service Offerings

Remote Services and Support

Production Go live & Post Production Support

Environmental Assessments

- Software and Hardware Requirements
- Evaluate Current TES Infrastructure
- Complete Healthcheck
- Comprehensive Report

Product Education & Training

- Formal Hands-on Product Training
- Intermediate, Advanced, Administrator, Operator, Transporter, Upgrades
- Customized Training & Workshops

<u>Services Scoping & Delivery:</u> Luis Bravo - Engagement Manager *lubravo*@*cisco.com* Patti Stephenson - AS Director *pattstep*@*cisco.com*

Operational Best Practices and Recommendations

Item	Area	Affected components	Remarks
Sizing various components correctly	Capacity	All	Refer to performance tuning guide. Load test the same.
Having Multiple CMs Load balanced	Load Distribution	Master, CMs	Having multiple CMs help to distribute load and avoid downtimes during maintenance
Upgrading one CM at a time & off- peak time maintenance	Maintenance	CMs	See above note
Correct parameter tuning	JVM, Threads	All	Refer to Perf Tuning Guide
Having higher auto-refresh interval e.g., 30 or 60 seconds for web clients	Perf Tuning	CM & Web Client	Default is 30 seconds in 6.2 (can be changed by using Web client → View → Configure Auto-refresh Interval)
History Purge	Maintenance	Master & CMs	Keep at the most 30 days of data online.
Database Index usage review (for CM only and share the indexes with Cisco)	Maintenance	Master & CMs	DBA needs to monitor to make sure that there are no table scans (except 1-2 known)
Configure timeouts properly to avoid RPC errors	System/RPC errors	Web clients	Application note published.

Item	Area	Affected components	Remarks
Initial roll out of Java Client & CM Sync	Tapering/Perf Tuning	Master, CM and Java Client	Make sure full CM sync is completed before Java Clients connect to Master.
Run Master, CM and TP on different servers (Mandatory for Production operations)	Performance	All	Master and CM databases should also be on separate servers for production systems.
Job Hierarchies (limit to 4 or less if possible)	Performance	All	 Avoid too-deep tree structure Avoid too many nested dependencies
Log file counts	MaxLogFiles=1000	dsp.props clientmgr.props service.props for each adapter, transporter.props	In order to help troubleshoot, increase # of log files retained to say 30 days worth (e.g., # of logs per day * 30). Review space requirements, per your log level.
Software patching (upgrade to each monthly or regular rollups) – including agents	Maintenance/ performance	All	Keep your system patched to the current version as improvements are continually being made to the product.
Admin & End User Training	Continued learning	All	Keep key resources working on TES trained well on product and these best practices

References

Cisco TES Home Page

www.cisco.com/go/workloadautomation

- From TES Home Page you can
 - Download Software
 - View/Download Data Sheet and Whitepapers
 - View/Download Installation and Configuration Guides
 - View/Download User Guides
- Monthly Roll ups of the software are posted in Cisco.com <u>http://software.cisco.com/download/type.html?mdfid=283340354&flowid=16741</u>
- Subscribe to our Support Community to participate in TES discussions
 <u>https://supportforums.cisco.com/community/5711/tidal-enterprise-scheduler</u>

			wbhoW	ide [change] - Welcome, Shyan	n Sundar Srinivasan A	ccount Log Out	My Cisco 🛛 🔻
cisco	Products & Services	Support	How to Buy	Training & Events	Partners		୍

Download Software

h 🕍 Download Cart (0 items) 🛛 🕅 Feedback 🛛 Help

Downloads Home > Products > Cloud and Systems Management > Data Center Automation > Workload Automation > Cisco Tidal Enterprise Scheduler > Cisco Tidal Enterprise Scheduler (TES) Hotfix Updates-6.1.0

Cisco Tidal Enterprise Scheduler Base Product

Search Expand All Collapse All	Release 6.1.0	Set Cisco Notification Alert	Add Devices	
	File Information	Sets a notification alert for this release		
5.3.1 6.0.3 • All Releases • 6.1 • 6.0 • 5.3	TES 6.1.0 hotfix bundle release for April 2014 TES_610_HotfixBundle_03272014.zip	To open Cisco Notification Alerts click on the My Cisco Tab and expand the Support Notifications section Id to cart Publish		
	This hotfix build includes three packages(MapReduce,Hive and Sq. inux agent installer for DataMover to support Apache/Cloudera dist TES_6.1.0.429_Apache1.1.2_CDH4_MapR3_02.03.2014.zip	Download Add to cart Publish		

Key Takeaways

- TES 5.3.1 EOL timelines
 - End of Engineering Maintenance: Sep 30, 2014
 - End of TAC Support: Jul 31, 2015
- TES 6.2 will be made generally available by May end
- Ensure proper hardware sizing for successful implementation
- Follow the best practices to ensure smooth operation
- Engage services for TES 5.3.1 to TES 6.2 migration

Thank you.

#