



## TIDAL ENTERPRISE SCHEDULER RELEASE NOTES V 6.0

These release notes highlight new features, enhancements and changes within Tidal Enterprise Scheduler™ (TES) v6.0. If you encounter any problems or have any questions, call either 650-475-4600 or 877-55-TIDAL and select option “3” for support. You will be routed to the Cisco Customer Interaction Network, or CIN:

<http://wwwin.cisco.com/CustAdv/ts/tso/globalops/gsde/CIN.shtml>

### New Features

The following new features are included in this release of Tidal Enterprise Scheduler.

#### Web 2.0 UI Interface

Portal like behavior in a browser which provides better navigation and control of the UI experience. You can now view multiple masters in one browser.

#### Client Manager

Two main components of the Enterprise Scheduler architecture are now the Master and Client Manager. Client Manager allows Enterprise Scheduler to achieve higher performance and scalability needs. The purpose of the Client Manager is to service requests from user initiated activities, such as through the Tidal Web Client, Tidal Transporter and from other external sources that utilize the Command Line Interface (CLI) or published Enterprise Scheduler Web services. Client Manager allows the Scheduler Master to focus more capacity on core scheduling needs related to job execution and job compilations, while the Client Manager addresses demands from such activities as RSS feeds and users viewing/configuring scheduling data and output. A

## Release Notes

single Client Manager is mandatory and additional Client Managers can be deployed to address additional performance needs.

### **New Windows Agent (release 3.x)**

The new Windows agent requires that .Net 2.0 be installed on your machine. NT 4.0 is no longer supported. The Master will still connect to the current windows 2.x agents.

### **New Web Service SOAP API**

The TES Web Service SOAP API delivers programmatic access methods to Scheduler objects through a Web Service interface. The service is provided by the Scheduler Plug-in which resides on a Client Manager.

### **New Adapters**

#### *JMS*

The Tidal Enterprise Scheduler Adapter for JMS allows application components based on the Java 2 Platform, Enterprise Edition (J2EE) to create, send, receive, and read messages. The JMS Adapter allows TES to participate in JMS based enterprise messaging systems.

#### *Remote Job*

The Tidal Enterprise Scheduler Adapter for Remote Job allows you to launch jobs in a Windows environment where access to a machine is restricted or limited and the job load is light.

#### *SSH*

The Tidal Enterprise Scheduler Adapter for Secure Shell (SSH) is a network protocol that allows data to be exchanged using a secure channel between two networking devices. The SSH adapter allows Enterprise Scheduler to run commands or script activities on a system or network device that has SSH enabled.

In addition to the standard SSH scripts, the SSH adapter also allows you to execute commands against Cisco IOS network devices, such as the SSH Command, SSH Script, Get File and Put File activities.

### **Fully Featured Unified API**

TES now has a fully features unified API for programmatic integration which includes REST and WSDL based Web services for SOA based integration and Remoteable CLI for Unix and Windows integration.

### **Enhanced Security – Group Management from AD/LDAP**

A user's workgroup membership now allows you to specify a security policy for jobs, events and actions owned by group.

Imported user from LDAP now creates a temporary user in TES for tracking audits and changes.

Imported temporary users are now allowed to own jobs, events and actions, if security policies permit.

## Changes from 5.3.1 to 6.0

### No native Windows client and API

There is now no native windows client and API. The Client Manager service replaces client and Go Global. TES now has a full featured API.

### User Authentication

The Administration group in 6.0 has three distinct entries for adding users:

- ◆ Interactive Users
- ◆ Runtime Users
- ◆ LDAP Groups

Enterprise Scheduler 6.0 allows for the setup of a user that authenticates against Active Directory/LDAP. Enterprise Scheduler also supports AD/LDAP only users.

At login, user credentials will be validated against Active Directory/LDAP. Once authenticated, Enterprise Scheduler obtains the users AD/LDAP groups and other information such as phone number and email.

Once login has completed as above a record will be established in Enterprise Scheduler to represent the Active Directory/LDAP only user if not already present and only if the user belongs to an Active Directory/LDAP group defined in Enterprise Scheduler. All user activity logging is then done against this new user record allowing for correct auditing and reporting.

Active Directory/LDAP only users will be allowed to create and own jobs and other objects if their security permissions permit.

### Group Security

Enterprise Scheduler LDAP groups are supported by the creation of groups within the Enterprise Scheduler application.

Security policies can be defined and specialized by application administrators.

Each group within Enterprise Scheduler can be assigned one security policy.

The security capabilities of a user are based upon the summation of the security policies defined for each of the groups that the user is a member of and any security policy directly assigned to the user. The latter is only available for users created within Enterprise Scheduler not imported from AD/LDAP.

## Workgroup Membership

Workgroups are also available within the Enterprise Scheduler application. These workgroups can be used to own related objects. Users and groups can be made a member of one or more workgroups.

When a user or a group is made a member of a workgroup then additional security policies can be applied to this relationship.

The users total security capabilities will then be a summation of their user applied security policy, the security policy associated with each of the groups they are a member of, and the security policies contained in the relationship between the user or group and the workgroups they are a member of (in the context of objects contained in that workgroup).

## SA API.dll

SA API.dll users now need to use the new Web Services API.

## SACOPY

SACOPY users now need to use the Transporter.

## SACNVRT

SACNVRT users now need to use native DB backup tools.

## System Configuration Requirements

The minimum hardware and software specifications required for Scheduler may change with a new release. The software applications supported by TES change to reflect the current versions of the software application. Each product release from Tidal Software is updated to keep pace with the upgrade releases of other software applications. The upgrade cycle for TES is not always synchronized with the upgrade cycle of the software applications supported by TES. New versions may be released after this release of TES went to testing so supported software application versions may get out of sync with TES. Always verify that the software applications that you are using are supported by the new release.

## Operating System Requirements

Consult the following table to ensure that your system meets the minimum requirements for installing and running Tidal Scheduler. The operating system requirements are updated during each release to stay abreast of the changes that constantly occur as operating system standards evolve. Successful operation of Scheduler depends upon using an operating system that has been tested and is supported by Tidal. The current shelf report listing the versions of applications and operating systems that are supported for use with Scheduler is available on the corporate Web site: <http://www.in.cisco.com/CustAdv/ts/tso/globalops/gsde/CIN.shtml>. Be sure to use additional RAM and disk space as necessary for your particular environment.

## Minimum System Requirements

The hardware and software requirements for the TES have changed in 6.0. Verify the specifications for your system to ensure compatibility with the most recent release of TES. The following table lists the current minimum system requirements for running TES 6.0.

	Platform					Minimum System Requirements (Dedicated Machine)			
	OS Name	Version	Chipset	32-bit	64-bit	JVM	Processor	RAM	Disk
<b>Master (Primary or Backup) Configurations Supported are:</b>	HPUX	11.23,11.31	Itanium		X	HP 1.6.0	Dual Processor 500MHz	2GB for TES Master + 1GB per adapter	300MB
	<b>Master on UNIX - Oracle DB on UNIX</b>	Solaris	9,10	Sparc	X	X	Sun 1.6.0	Dual Processor 500MHz	2GB for TES Master + 1GB per adapter
<b>Master on Windows, Oracle DB on UNIX</b>	Solaris	10	Opteron		X	Sun 1.6.0	Xeon Dual Core 2GHz	2GB for TES Master + 1GB per adapter	300MB
<b>Master on Windows - MSSQL on Windows</b>	AIX	5.3 TL 5,6,9,10,6.1	RISC, PPC	X	X	IBM 1.6.0	Dual Processor 500MHz	2GB for TES Master + 1GB per adapter	300MB
<b>Master on Windows - Oracle On Windows</b>	Windows	2003 (Standard SP1+, Enterprise SP1+)	Intel/ AMD	X		Sun 1.6.0	Xeon Dual Core 2GHz	2GB for TES Master + 1GB per adapter	300MB
<b>MSSQL Server 2005 single or multi- instance</b>	Windows	Server 2008	Intel/ AMD	X	X	Sun 1.6.0	Xeon Dual Core 2GHz	2GB for TES Master + 1GB per adapter	300MB
<b>MSSQL Serv(Cer 2008 single or multi- instance</b>	Linux	Redhat Enterprise Server v4,v5 Cent OS v4,v5	Intel/ AMD	X	X	Sun 1.6.0	Xeon Dual Core 2GHz	2GB for TES Master + 1GB per adapter	300MB
<b>128 MB Data, 32 MB Log</b>	Linux	SUSE Enterprise Server v10,v11	Intel/ AMD	X	X	Sun 1.6.0	Xeon Dual Core 2GHz	2GB for TES Master + 1GB per adapter	300MB
<b>Oracle 10g, 11i</b>	Linux	Oracle Enterprise Linux v5	Intel/ AMD	X	X	Sun 1.6.0	Xeon Dual Core 2GHz	2GB for TES Master + 1GB per adapter	300MB
<b>400MB Data, 300MB index, 200MB temp</b>	VMWare	ESX 3.0, ESXi 3.5,ESXi 4.0							
	VMWare ESX on UCS	ESXi 4.0 U1	UCS: B250 M1, C250 M1, B200 M1, B200 M2, B250 M2, C200 M1, C210 M1						

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## Release Notes

	Platform					Minimum System Requirements (Dedicated Machine)				
	VMWare ESX on UCS	ESX 3.5 U5	UCS: B250 M1, C250 M1, B200 M1, B250 M2, C200 M1, C210 M1							
<b>Fault Monitor (OS must match master)</b>	HPUX	11.23	Itanium	X	X	HP 1.6.0	100 MHz	256MB	100MB	
	Solaris	9,10	Sparc	X	X	Sun 1.6.0	100 MHz	256MB	100MB	
	Solaris	10	Opteron		X	Sun 1.6.0	100 MHz	256MB	100MB	
	AIX	5.3 TL 5,6,9,10,6.1	RISC & PPC	X	X	IBM 1.6.0	100 MHz	256MB	100MB	
	Windows	2003 (Standard SP1+, Enterprise SP1+)	Intel/ AMD	X		Sun 1.6.0	Pentium 4 400 MHz	256MB	100MB	
	Windows	2003 (Standard SP1+, Enterprise SP1+)	Intel x86/ AMD		X	Intel x86/ AMD: Sun 1.6.0	400 MHz	256MB	100MB	
	Windows	Server 2008	Intel/ AMD	X	X	Sun 1.6.0	400 MHz	256MB	100MB	
	Linux	Redhat Enterprise Server v4,v5 Cent OS v4, v5	Intel/ AMD	X	X	Sun 1.6.0	400 MHz	256MB	100MB	
	Linux	SUSE Enterprise Server v10,v11	Intel/ AMD	X	X	Sun 1.6.0	400 MHz	256MB	100MB	
	Linux	Oracle Enterprise Linux 5.2	Intel/ AMD	X	X	Sun 1.6.0	400 MHz	256MB	100MB	
	VMWare	ESX 3.0, ESXi 3.5, ESXi 4.0								

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	Platform	Minimum System Requirements (Dedicated Machine)
	VMWare ESXi 4.0 U1 ESX on UCS	UCS: B250 M1, C250 M1, B200 M1, B200 M2, B250 M2, C200 M1, C210 M1
	VMWare ESX 3.5 U5 ESX on UCS	UCS: B250 M1, C250 M1, B200 M1, B250 M2, C200 M1, C210 M1



**Warning** It is recommended that no more than five agents be run on the minimum hardware platform. However, the number of agents that can be run on a given server depends upon the CPU and memory resources available on the machine. Add a single agent at a time and gauge the effect of each added agent on system performance before adding more. You have to experiment with the configuration to achieve optimal results.

## Known Issues

### Unable to disable

Unable to disable PeopleSoft adapter through Client Manager after upgrading to 6.0.

**Workaround:**

If you are upgrading your environment to 6.0 with adapters that are unsupported in the 6.0 release (i.e., PeopleSoft), disable the connection before you begin the upgrade.

### Bug# 20338

IE process exceeds 1.1+ GB just browsing in Events, Jobs.

**Workaround:**

Working in the Tidal Web client, Internet Explorer 7 & 8 is known to have high CPU & Memory. Use Firefox.

