

Tachyon features by release

Summary

A list of the Tachyon features organized by the release they were implemented in. Links through to the features have been provided for convenience.

New features in Tachyon 5.0

Tachyon Platform

- Switch now supports Windows Certificate Store (instead of Switch certificate files)
- Eventing mechanism allows propagation of live events in real-time from 1E Client to consumers
- Support for Microsoft System Center Configuration Manager CB1910 and Microsoft SQL Server 2019
- [Guaranteed State](#) application:
 - Guaranteed State now supports table partitioning (SQL Server feature for better performance)
- New [Inventory](#) application:
 - [AI Powered Auto-curation](#)
 - Software Inventory, including aggregation
 - Hardware Inventory, including summaries for devices and virtual hosts
 - Manage associations between inventoried products and Configuration Manager applications and packages
- Support for new applications:
 - [Experience 1.0](#) (included in Tachyon Setup)
 - [AppClarity 7.0](#)
 - [Application Migration 3.0](#)
- [Tachyon Setup](#):
 - When upgrading from SLA Platform 3.3 its SLA users are migrated to become Tachyon users with no roles assigned
 - Network Service is used for the 1E Catalog Update Service instead of a domain account
 - Supports "Business Intelligence" option to allow BI installation independently
 - Maintenance screen provides Server Certificate option to update certificate bindings

Tachyon Product Packs

- [Tachyon Product Packs](#) listed below are now included in the Tachyon Platform zip, previously they were in a separate Tachyon Product Packs zip
- [Tachyon.ProductPackDeploymentTool.exe](#) - relocated from the Integrated folder to the root folder, so it can be used to upload Classic and Integrated Product Packs, and be started by Tachyon Setup
- [1E-Explorer-TachyonAgent.zip](#) - includes new instructions for location
- [1E-Explorer-TachyonCore.zip](#) - includes new instructions for firewalls
- [1E-Inventory.zip](#) - a new pack included in the download (1E-Inventory-ProductPacks.zip previously included in the SLA installer), zip renamed to match documented name of instruction set
- [1E-Patch-Success.zip](#) - zip renamed to match documented name of instruction set
- [1E-Tachyon-Platform.zip](#) - zip renamed to match documented name of instruction set
- [Microsoft SCCM Client Health Integrated Product Pack](#) - includes 1 new rule - Ensure ConfigMgr client is running.

Other Product Packs are available from the Tachyon Exchange: tachyonexchange.1e.com

Tachyon client features in 1E Client

Tachyon client for Tachyon v5.0

- Uses OpenSSL 1.1.1c for secure communication with the Switch and Background Channel
- Tachyon.Performance.Metrics.exe is now included in the 1E Client, previously included in the Windows Endpoint Performance Integrated Product pack
- Tachyon activity record and storage features enhanced to include:
 - Software Performance
 - Operating System Performance
 - Performance data
- New modules: Http.post, Device.GetLocation, Device.SetLocation
- Now uses SQLite 1.29.0
- Windows support confirmed for Windows 10 1909
- Non-Windows now supports Red Hat v8.0 and v6.0
- MacOS now supports Catalina 10.15.1

Shopping client for Shopping v5.6

- No changes - only hotfixes

WakeUp client for NightWatchman Enterprise v7.2.500 and v7.3

- Now creates WakeUp firewall exception with name '1E Client (WakeUp)' and it's now port specific.

Nomad client for Nomad v7.0.100

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- Tachyon.ProductPackDeploymentTool.exe (**tool relocated from the Integrated folder to the root folder, so it can be used to upload Classic and Integrated packs, and be started by Tachyon Setup**)
- Classic Product Packs:
 - 1E-ConfigMgrConsoleExtensions.zip (minor changes to instructions)
 - 1E-Explorer-TachyonAgent.zip (minor changes to instructions plus **new instructions for location**)
 - 1E-Explorer-TachyonCore.zip (minor changes to instructions plus **new instructions for firewalls**)
 - 1E-Inventory.zip (**new, renamed from 1E-Inventory-ProductPacks.zip previously included in the SLA installer**)
 - 1E-Patch-Success.zip (**updated instructions and renamed zip**)
 - 1E-Tachyon-Platform.zip (**renamed zip**)
- Integrated Product Packs:
 - MSSCCMClientHealth.zip (**1 new rule**)
 - NomadClientHealth.zip (minor changes)
 - TachyonCore.zip (minor changes)
 - WindowsClientHealth.zip (minor changes)
 - EndpointPerformance.zip (**removed**)

Tachyon client features in 1E Client

For more information about the 1E Client, including other 1E client modules, please refer to [1E Client 5.0](#).

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Tachyon 4.1

Tachyon Platform

- **Tachyon Setup has been expanded to include ActiveEfficiency Server:** this is in order to support the Nomad Dashboard and Nomad download pause features.
- Tachyon Setup has also been extended with the following features:
 - Uninstallation, and also inclusion of MSPs at install-time
 - Re(registration) of applications from Maintenance page
 - Consumer-level workflow override (e.g. for ServiceNow integration)
 - Support for partial upgrades
 - Ability to run Tachyon Product Pack Deployment Tool to upload Product Packs
- Tachyon toolkit consumers are registered automatically during installation
- Improvement on Action processing
- Improvements to Explorer:
 - A new **Instruction Detail** dialog has been added to the **Instruction History** page that shows information on the selected instruction
 - Improvements have been made to the **Device Detail** dialog on the **Devices** page
- Improvements to Guaranteed State
 - The **Rule Status** tile and corresponding drill-downs have been improved
 - Rule editing is now supported
 - A **Device Detail** dialog has been added
 - A **Remediation** report is now available that shows what remediations have been applied
 - The dashboard header statistics have been improved
 - Performance improvements
- Improvements to Patch Success:
 - The **Patch performance** dashboard tile can now be used to interactively filter the page
 - A new **Monitoring** menu has been added that displays the history and responses for the Patch Success instructions
 - Performance improvements
- Support has been confirmed for:
 - Microsoft System Center Configuration Manager CB1902

Tachyon Product Packs zip

- Classic Product Packs (updated for 4.1):
 - 1E-ConfigMgrConsoleExtensions.zip
 - 1E-Explorer-TachyonAgent.zip
 - 1E-Explorer-TachyonCore.zip
 - 1E-PatchSuccess.zip
 - 1E-TachyonPlatform.zip
- Integrated Product Packs (new for 4.1):
 - EndpointPerformance.zip
 - MSSCCMClientHealth.zip
 - NomadClientHealth.zip
 - TachyonCore.zip
 - WindowsClientHealth.zip
- Tachyon.ProductPackDeploymentTool.exe (new)

Tachyon client features in 1E Client

For more information about the 1E Client, including other 1E client modules, please refer to [1E Client 4.1](#).

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Tachyon 4.0

Tachyon Platform

- **Tachyon Setup** provides simplified installation of Tachyon Server, SLA, 1E Catalog and Business Intelligence (BI) components, forming the Tachyon Platform
- **Tachyon Portal** provides a single web-based user experience, with a unified look-and-feel, for all the Tachyon applications:
 - **Explorer** - now an application in the Portal which provides the familiar interface into real-time investigation, remediation and management of operations across all the devices in your enterprise
 - **Patch Success** - new Tachyon application: Maximize enterprise-wide patch deployment success
 - **Guaranteed State** - new Tachyon application: Ensure endpoint compliance to enterprise IT policies
 - **Settings** - now an application in the Portal which provides management and configuration of the whole Tachyon Platform and applications in one place
- **Management groups** now use inventory-based rules to define groups of particular devices, they are implemented in SLA and then made available to Tachyon applications and other consumers

- **Inventory** - integration of 1E Catalog and SLA into the Tachyon Platform to provide a consolidated (de-duplicated and normalized) inventory gathered from Tachyon and other systems management products (Configuration Manager, Big Fix, vCenter etc) which can then be utilized by Tachyon applications and other consumers
- Support for:
 - Okta delegated authentication for DMZ-based Tachyon Switches
 - Device Criticality attribute across the Tachyon Platform
 - installing without client certificate requirement for Tachyon Agents
 - Windows 10 1809
 - Windows Server 2019
 - Microsoft System Center Configuration Manager CB1810



Deprecated mobile app-based 2FA for approval workflow has been removed.

Tachyon Product Packs zip

- 1E-ConfigMgrConsoleExtensions.zip
- 1E-Explorer-TachyonAgent.zip
- 1E-PatchSuccess.zip (new - required for Patch Success application)
- 1E-TachyonPlatform.zip

Tachyon Agent

- **Patch module** allows listing and deployment of Windows Updates, supporting the Patch Success application
- **Storage module** allows persistent, secure storage and retrieval of data from instructions
- **Policy engine** provides support for Guaranteed State application
- Performance and usability improvements to file search methods
- TIMS includes call-tip information for methods, simplifying instruction creation
- Improvements to cipher suite selection for SSL connections
- Support for macOS Mojave
- Support for Windows 10 1809

Tachyon 3.3

- **Management groups** - extends RBAC permissions so that user roles can have management groups assigned as well as instructions sets. This means, for example, business unit administrators can only send certain instructions to devices they manage.
- **Integration of WakeUp into Tachyon Agent** - WakeUp integrates with either the NightWatchman Management Center or with Microsoft Systems Center Configuration Manager and provides the ability to power on computers from a power off state over a network. The WakeUp Agent module can now be enabled as part of the Tachyon Agent installation.
- **System Information View** - this page in the Tachyon Explorer Configuration section displays information about how the components of the Tachyon system have been configured.
- **Tachyon enhancements** - a number of enhancements have been made to Tachyon to improve usability in key areas:
 - New GUID generation mechanism to support WakeUp integration
 - Support of "Export all results" from Status tab
 - Various new/enhancements to methods on existing modules (as documented in the [SDK](#))
 - Switch logging rewritten and can be configured to use log levels and log areas
 - Federal Information Processing Standard (FIPS) Compliance
- **Tachyon Product Packs zip:**
 - 1E-ConfigMgrConsoleExtensions.zip
 - 1E-Explorer-TachyonAgent.zip
 - 1E-TachyonPlatform.zip

Tachyon 3.2

- **Instruction Set management improvements** - a streamlined process for loading Instructions into Tachyon and organizing them into Instruction Sets is now available in Tachyon 3.2.
- **Improved Tachyon installation experience** - the Tachyon Setup utility has been improved to provide automatic prerequisite checking, certificate file generation and post-installation checks
- **Instruction scheduling management improvements** - the Instruction scheduling management dialogs have been enhanced making it easier to define schedules to run Tachyon Instructions over days, weeks and months
- **Tachyon Agent installer** - now includes a Shopping module adding WSA (Remote Worker) and Shopping Agent features into the Tachyon Agent. You can also install the Tachyon Agent without configuring a connection to the Tachyon Server, for those instances where you are using Shopping but not Tachyon.
- Process stabilization statistics added to [Historic Data Capture](#) to gather information on the time it takes for processes to achieve a state of stable resource usage
- **Support for Tachyon Powered Inventory** - Two new Tachyon Agent inventory methods have been added to capture process and user usage statistics - these are needed to support the AppClarity Tachyon Powered Inventory feature.
- **Tachyon enhancements and optimizations** - a number of enhancements have been made to Tachyon to improve performance in key areas:
 - Switch connection optimizations around change of network and change of power state
 - Various new/enhancements to methods on existing modules (as documented in the [SDK](#))
 - Support for in-memory caching of downloaded resource files
 - Instruction search uses "most frequently used"-style search rankings (i.e. more frequently used instructions appear nearer to the top of the search results)

- Improved support for large text content in responses, the content can now be displayed in its own scrollable dialog as well as downloaded as a file in the browser
- The Instrumentation and Workflow services have been merged into a single Coordinator service
- **Tachyon Product Packs zip:**
 - 1E-ConfigMgrConsoleExtensions.zip
 - 1E-Explorer-TachyonAgent.zip
 - 1E-TachyonPlatform.zip
 - Other Product Packs moved to Tachyon Exchange: tachyonexchange.1e.com



The **Tachyon App**, also known as **Tachyon Auth mobile app**, is deprecated and will be removed in a future release of Tachyon. As a consequence, the **Registered mobile phones** administration page is also deprecated.

Tachyon 3.1

- **Scheduling instructions** - Tachyon now lets you schedule when instructions are run, supporting deferral to enable instructions to be run out of hours, or repetition of instructions for regular maintenance and routine tasks.
- **Instruction Sets** - you can now organize Tachyon Instructions into Instruction Sets in the Tachyon Administration Console, increasing flexibility when defining permissions for instructions.
- **Enhanced Instruction security** - using **TIMS** you now need to digitally sign **Instruction Definition files** ensuring that the integrity of any **Instruction Definition** that you import into Tachyon is guaranteed and has not been tampered with.
- **Data export to Syslog format** - Tachyon responses export has been extended to enable exports to the commonly used Syslog format.
- **Integration with ServiceNow** - ServiceNow is a cloud-based PaaS focused on incident management. Tachyon ServiceNow integration lets you use your incident management system as an alternative to Tachyon's approval mechanism for Tachyon Instructions.
- **Increased cross-platform Agent functionality** - the Tachyon Agent methods and the non-Windows Tachyon agents have been enhanced to provide greater cross-platform support for instructions.
- **Installer enhancements** - the user-experience in the Tachyon Server installer has been improved.
- **New licensing model** - a new file-based licensing model has been introduced in Tachyon 3.1. This new license type enables licensing for specific instructions as well as the current seat-based license.
- **NightWatchman integration** - by integrating with Tachyon the NightWatchman Management Console can now accurately display the online status for the devices running NightWatchman and Tachyon. Please refer to [NightWatchman Enterprise and Tachyon](#) in the [NightWatchman Enterprise 7.2](#) documentation for details.
- **Nomad integration** - Nomad downloads can now be paused using an instruction in the 1E-Nomad product pack. This enables organizations, using Configuration Manager and Nomad, to quickly delay the broadcast of packages if they are deemed to be at risk until any problems have been resolved. Please refer to [Nomad Download Pause](#) in the [Nomad 6.3](#) documentation for details.

Tachyon 3.0

- [Task-based UI](#)
- [New responses visualization](#)
- Tachyon Agent historic data capture
- [Two-factor authentication for actions](#)
- [Brand-new devices view on the Devices page](#)
- Single-server installation supporting more than one Switch
- Tachyon Server support for Windows Server 2016
- Tachyon Explorer support for Firefox browser

Tachyon 2.0

- [Microsoft System Center Configuration Manager Console integration](#) (including an integrated Instruction Runner)
- [Tachyon Agent support of Linux and Mac OSX platforms](#)
- Agent [integration with 1E Nomad](#) to download content
- Efficiency and security enhancements: [response offloading](#), throughput limiting and [consumer registration](#)
- Active Directory multi-domain support
- Automated database housekeeping

Tachyon 1.51

- Support for Cryptographic Next Generation certificates
- Ability to upload multiple Product Packs at once in Tachyon Explorer
- Improved version and error reporting support in Consumer API
- Agent support for querying HKEY_USER registry data
- Agent Extensibility updates can be issued by Agent version number
- Improved support for follow-on instructions targeting a list of device FQDNs
- New-look email template for approval workflow

Earlier Tachyon features

- Upgrade to latest version of OpenSSL v1.0.2h
- Security to enforce client certificates
- Extended properties for defining Coverage Tags
- Instruction impact assessment

- Questions, responses, coverage and filters
- Refine answers with further questions
- Running actions
- Installing and viewing Product Packs
- Checking inventory and connectivity
- Configuring Role-Based Access
- Extended RBAC API extensions for other consumers
- Consumer API versioning
- Using Instrumentation
- Exporting results to CSV
- Monitoring events on Tachyon Agent devices
- Tagging of Tachyon Agent devices
- Targeting questions to a list of FQDNs
- Filtering of responses to questions from Tachyon Agent devices
- Support for targeting FQDN lists for follow-on instructions
- Improved handling of Agent online/offline device status
- Tachyon Server installer supports upgrade, from v1.3
- Tachyon Server installer assigns only Security Administrator role to default user