API Server 7.2.0 Release Notes

Applies To

API Server v7.2.0

Feedback

Send suggestions and comments about this document to support@vordel.com.

New Features

API Server 7.2 delivers new and improved value around these themes:
- Simplifying the promotion of the API Server configuration between environments.
- Strengthening the KPS to improve the development and deployment of solutions requiring dynamic policy behavior.
- Improving the OAuth capabilities with support for the finalized specification and the provision a highly-distributed token store.
- Providing a greater range of authentication and authorization capabilities by introducing Passport Access Management and extending LDAP support.
- Enabling cloud-based deployments with native AMI support.

Simplified configuration promotion—simplifies the promotion of configurations between environments from development thru to production, enabling interoperation with existing promotion processes and tools such as Configuration Management repositories. The promotion tasks and tooling for upstream administrations are simplified, reducing the level of expertise they require of the API Server and the policies being promoted.

Configurations to promote are now split into a policy and environment packages. The policy package contains the non-environment specific configuration and can be promoted unchanged from the development environment. The environment package contains all environment specific information. Both packages contain metadata describing their contents and version, and can be stored in Configuration Management repositories. Configuration Studio provides a new and simpler tool for upstream administrators to prepare environment packages, eliminating the need for detailed knowledge of API Server and the policies being promoted. Comprehensive documentation describes the promotion tooling and process.

Support for finalized OAuth 2.0 specification—enables enterprises to deploy fully compliant OAuth 2.0 solutions.

The OAuth 2.0 specification was finalized in October 2012. With API Server 7.2, support for OAuth 2.0 is brought up to the level of the finalized specification—API Server 7.1 provided support for draft 27 (draft 31 was the last draft before being finalized).

Simplified KPS developer experience—simplifies the development of dynamic metadata driven policies.

The Key Property Store (KPS) was introduced in API Server 7.0 to enable dynamic policy behavior driven by externalized metadata. This release simplifies the development of typed KPS data structures with the introduction of an easy-to-use graphical editor.

Apache Cassandra embedded as KPS backing store and OAuth token store—enables the deployment of highly distributed solutions while eliminating the dependency on the use of an external RDBMS.

Apache Cassandra is a scalable and highly available distributed database (http://cassandra.apache.org/). API Server 7.2 embeds Cassandra to provide additional options

for both the KPS Backing Store and OAuth Token Store. For both stores, Cassandra ensures that the data is replicated across all distributed API Servers. Management tooling is provided for the easy administration of the distributed Cassandra cluster within the API Server deployment.

Configuration Diff and Merge—enables a team of developers to work on a single configuration separately, and then merge their individual changes into a single configuration for deployment and promotion.

A configuration diff and merge tool has been introduced in Policy Studio allowing a developer to compare policies and other configuration contained two different deployment packages.

Authentication and authorization using Axway Passport AM—enables enterprises to leverage their existing investment in the Passport Access Management (AM) repository to authenticate and authorize users accessing APIs and Services on the API Server.

A Passport authentication repository allows all user-centric authentication filters (for example, HTTP Basic authentication) to authenticate requests against users managed in the Passport AM repository. A Passport authorization filter allows the requests to be authorized against roles and privileges defined in the Passport AM repository. A Passport csd.xml file is automatically generated defining the default roles and privileges as the API URL and HTTP action, enabling users to be authorized to access APIs. The Passport authorization filter supports the use of custom csd.xml files to define more specific and fine-grained authorization models.

Simplified LDAP authorization—enables enterprises to use their existing LDAP user repositories for group-based authorization.

A new filter simplifies LDAP authorization in policies by checking whether the authenticated user is a member of the specific LDAP group.

Native Amazon AMI—enables enterprises to deploy the API Server on Amazon as a native Amazon Machine Image

Traffic Monitoring speed improvements—the transaction monitoring data output format has changed so that it is written to a very small set of files in the /conf/opsdb.d., reducing the number of directory operations and disk writes significantly. The embedded SQLite database has been removed from the API Server. The Traffic Monitor REST API remains the same as previous releases. The the transaction data file is now in JSON format. The web interface for browsing and viewing transaction history remains the same. The purge of the transaction monitoring data is no longer based on age of date but rather the number of transactions or size of the monitoring data files on disk.

Domain Audit Log—configuration changes, logins, deployments, topology changes are audited and available in the "audit" log. The domain audit log is available to view in the API Server Manager > Settings tab.

Improved documentation—new user guides available for the API Server:
- Concepts Guide
- Promotion and Deployment Guide
- Developer Guide
- API Server REST API documentation

Fixed Problems / Enhancements

From support.vordel.com

CRM	Redmine	Description
18093	804	Additional Parameters with Access Token made available in "Access Token Information" filter
18030	800	Return Content-Length in response to client as configured in Remote Host
17819	789	Validate OAuth Token Filter should not accept Tokens from disabled or deleted clients
17801	793	After Validate OAuth Token function call ${accesstoken.getScope()} should not be null
17773	784	Resource Owner Password Credential Filter cannot handle different AuthN failure reason
17770	788	OAuth Validate Token Filter cannot send separate error messages for "invalid_token" or "insufficient_scope"
17769	785	OAuth Validate Token Filter aborts if access token is missing
17579	775	Refresh token not valid after Access token is removed from memory
17483	776	Crash with https proxy server
17483	778	proxy server from external connections not working
17480	769	Attribute substitution in script filter not thread safe
17405	770	Node Management Deployments showing user "null" after switch to LDAP
17331	818	Setting Traffic Monitor size and date settings format in GUI cause incorrect values to be displayed
17275	780	Refreshed OAuth access tokens do not contain additional data
17162	807	Communication between node managers during topology changes
17010	749	OAuth : http responses customization and wrong "400 OK"
16894	748	OAuth: only store necessary data from clients in DB
17916		NPE(null pointer exception) when the ICAP filter is called.

12096		WARNING - SOAP version is not set for operation

From support.axway.com

CRM	Redmine	Description
678056	640	Switch on attribute filter not thread safe
679082	434	Enhanced Tracing Output for FTP Pollers

From redmine

852   Extract Path Parameters filter - doesn't have a failure path
843   Re-introduce diff / merge tool in Policy Studio
816   Allow additional information be associated with AuthZ code
813   Ability to not add the X-correlationId header to the request / response
802   ICAP filter basic test using the option /SYMCScanReq-AV fails on 7.1.1
791   APITester request settings dialog stalls with an invalid URL error once opened
782   Wrong labelling on the fields on PGP Encrypt and Sign filter screen
755   Incorrect schema file referenced for Audit Logging to database
740   Simple RBAC LDAP Authorization Filter
738   Rename existing RBAC filter
733   Change "policy package" to "policy assembly"
724   "No Authorization Header" printed out under INFO in client Node Manager trace
722   JMS message body consumed by traffic monitor
716   Managedomain update for adding additional hosts
698   Adding Certificate with private key stored in HSM won't be placed under Certificates with Keys
696   DBPurger requires password when running against db in analytics configuration
676   JMS Messages show failed status in Dashboard but are marked as Transaction Status = SUCCESS
675   Click through from Dashboard to Traffic Monitor does not generate correct result IF the message is JMS
669   Update of DBPurger instructions
666   Can't mix env variables with message attributes in set message filter
662   Install on 32bit Centos just hangs doesn't complete as permissions are needed by selinux
659   Retrieve from LDAP filter does not retrieve any attributes when none is specified
657   Remove ability to virtualize a Web Service in API Service Manager
656   VXP backup script is using the old gateway path
651   Adding 2nd JMS Session in 7.1.0 doesn't appear nothing happens
646   Traffic Monitor groups and servers selection display error
639   Cannot connect to *.fed file located in path containing spaces in Policy Studio
636   API Tester design mode can't use SOAP filters from "content filtering"
633   New 7.1 path resolver requires more detailed documentation
618   Migration utility to log changes to log file
612   If the Admin Node Manager can't communicate with a Node Manager, show a meaningful error

611   Missing filter options for JMS in Traffic Monitor
601   Alerting to Windows Event Viewer Contains error in regards to proper event logging
594   Deploying to a Group with not all NMs running
586   New Option under JMS Consumer not documented
531   When an access token is issued with additional attributes, the GW should persist them
529   Email alert filter subject can't take an attribute
528   Wrong title in the HTML page sent back when listing Static Content directory
515   Attribute/Get Cookie not failing when requested cookie not found
501   Include headers indicating remaining quota
484   All OAuth grant types should have the option of issuing refresh tokens except for where the specification says not to
475   ID : 12535 - Gateway-OEM Plug-in does not provide a descriptive error message
474   Startinstance with no args should start the API Server if there is only one API server configured in the topology
467   Ability to make Topology changes if not all NMs running in the domain
458   Vordel Manager UI should display the current active configuration for each API Server
456   Directory Scanner Delete File Option
453   Analytics: reports generated in *.csv format
446   Change Vordel Manager / Events tab / Log sub-tab to Audit sub-tab
436   Directory scanner should support same options a File Load filter
430   Highlight patch update more explicity in documentation
419   Load file filter make output directory optional
407   FTP Error Messages not informative
379   Change Audit Log to Transaction Log in PS tooling and documentation
359   Gateway fails to start if configured JMS is not available
354   ftp filename attribute in auto-drop-down attribute list is incorrect
268   Database Read/Write Filter Enhancements
232   Ability to force a Relative Path to be an exact match
230   Enhancement Requests around Directory Scanner functionality
170   Document how to rollback to previous configuration versions in production
83   Add timestamp to trace/logs filenames on rotation.

Known Issues
Analytics - When a generated PDF is emailed from the web front end the link to view the report is not working as the report has been deleted once emailed

Additional Announcements
The API Service Manager feature is deprecated in API Server 7.2, and will be removed in API Server 7.3. Users are recommended to use Policy Studio to virtualize all APIs and Services.

Support Services
The Axway Global Support team provides worldwide hotline support 24/7. You can find all hotline numbers by country on the Support website: www.support.axway.com. In addition, you can use the Axway support website to download the latest information relating to the solution including:
  ● Technical articles
  ● Information about supported platforms
  ● Service Packs and Patches
  ● FAQs