Ivanti Neurons Service Mapping - Release Notes

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1 Neurons Service Mapping - Release Notes

1.1 Scope

The scope of this Release Notes is to:

- Provide an overview of IVANTI release V6.1.
- Provide a list of new features available in IVANTI.
- Provide a list of known issues present in the current version.

1.2 Software Versioning

The Ivanti platform follows the standard version strategy*. Please refer to the table below for details.

Software Versioning	
Major Release	Introduces breaking changes or major platform updates. May require reconfiguration or retesting.
Minor Release	Adds new features or enhancements that are backward-compatible.
Patch	Fixes bugs or security issues with no impact on existing functionality.
Build	Identifies a specific deployment instance for tracking and support.
Explanation for V6.1. **6** represents the Major Number: Indicates major platform updates or new features. **1** represents the Minor Number: Denotes incremental improvements to the major version.	

1.3 Ivanti – Overview

Ivanti is a unified SaaS platform that delivers IT Asset Management (ITAM), Configuration Management (CMDB), and IT Service Management (ITSM) capabilities. It provides agentless discovery of hardware and software assets across core infrastructure and edge environments, including visibility into their dependencies and relationships.

Ivanti uses an automated and repeatable discovery process to ensure continuous accuracy and integrity of asset data. This process establishes a reliable foundation for managing IT operations, cybersecurity, governance, risk, and compliance (GRC), and digital transformation initiatives.

1.4 Change Log

⚠️ **Disclaimer**: The following features are planned for the Ivanti 6.1 release and are subject to change based on testing, prioritization, or implementation readiness.

2 Neurons Service Mapping - Release Notes V6.1.4 (July 2026)

2.1 What's New

This release delivers new features, enhancements, and bug fixes across Discovery, CMDB, Admin, Reports, and the Discovery Application and Agent. These updates automatically display upon upgrade and do not disrupt daily use for existing customers.

Service Mapping	Feature Enhancements
Discovery	• **Juniper Mist Import [BETA]:** Support to Import Juniper Mist-managed wireless and network assets into Virima, keeping your inventory in sync with the Mist environment. • **HP Aruba Wireless Controller - Access Point Cluster Discovery:** Enhanced the support for HP Aruba wireless controllers to now discover their managed access points, modeling the controller as an Access Point (AP) Cluster with a member CI per AP linked via a Contains relationship. • **Secure PowerShell Scan over SSL/TLS:** Support for PowerShell (WinRM) scans to connect securely over HTTPS, validating the server certificate against a configured truststore. • **SSL Certificate Expiry Notification:** Added support for notification alerts to users when the configured Discovery Application's SSL certificate is within 30 days of expiring. • **User-Managed SNMP OIDs with Per-Tenant Storage:** Support for users to add and manage the custom SNMP OIDs directly from the application.

CMDB	• **Context-Aware Column Selection:** Enhanced the Add Columns (Personalize Columns) dialog to show only the properties relevant to the blueprint being viewed, instead of all properties across every blueprint.
	• **"Rescan Now" for Agent-Scanned CIs:** Support for "**Rescan Now**" on agent-scanned (self-scan) CIs, with the discovery client auto-selected in the popup.
	• **Azure Subscription - Tags Tab:** Support for a dedicated **Tags** tab on the Azure Subscription blueprint to add, edit, and delete tags directly, with changes reflected and kept in sync immediately.
	• **BSM - New Design View:**
	  ○ Support for a **New Design View** to better represent the maps using a clustered view, along with smarter search across grouped CIs, redesigned visuals, and context menus.
	  ○ Support for CI Overlays that surface issues (Open/Closed Changes, Incidents, Vulnerability, CI

	Impacted, Host Down) via an alert button, focusing the affected CI on click. • **BSM - Reworked Snapshots, Export & Controls:** Support for **Save Snapshots** feature to capture, view, and download the map in the PNG format (snapshots created before v6.1.4 are not backward compatible). • **BSM - Switch Between Legacy and New Views:** Support for toggling between the Legacy and the New design view, with the preference saved to the user's profile. • **"Select Actions" in "View Decommissioned" Mode:** Added support for "Select Actions" options for decommissioned records in CMDB, Software Assets, and Software License Keys.
Reports	• **Report Exports Now Use CSV Format:** Enhanced report exports to generate CSV instead of XLSX, to support large exports.
Integration	• **Cherwell Integration Feature Sunset:** The Cherwell ITSM integration has been sunset from the Virima platform.

Discovery Application (v6.1.4030) & Discovery Agent (v6.1.124)	• **Enhanced Discovery Application Settings:**
	  ○ Support to "**Import Trust Store Certificates**" to enable importing certificates for secure PowerShell connections used during discovery scans.
	  ○ Support to "**Import SSL Certificate to Agent**" to allow updating agent certificates for secure communication with the Discovery Application.
	  ○ Support to "**SSL Configuration**" to configure and install SSL certificates, ensuring secure communication between the Discovery Agent and the Discovery Application.
	  ○ Support for "**App Configuration**" to provide a centralized location for modifying application-specific settings.
	• **Discovery Application Settings:** Renamed "Configuration" to "Auth Configuration" to better reflect its purpose of managing client authentication details.

2.2 Fixes

These fixes automatically display upon upgrade and do not disrupt daily use for existing customers.

Service Mapping	Fix
Discovery	• **Accurate "Last Status Update" for Down Clients:** Fixed the **Discovery Client** status to update "Last Status Update" only when a client is confirmed reachable, so offline clients show their true last-contact time.

	• **ESXi Host RAM Reported Consistently:** Fixed an issue where ESXi host memory was calculated much larger than actual; RAM now converts correctly in both SSH and vCenter scans. • **Cisco Switch Stacks - Neighbor Discovery:** Fixed neighbor discovery for switch-stack CIs, now showing each neighbor's Local Interface and reflecting these relationships in Network View. • **MySQL Config Discovery - RAM Usage:** Fixed an issue where MySQL Config discovery scanned the entire filesystem, causing high memory use; the filesystem-wide scan has been eliminated. • **Missing ESXi Hosts After vCenter Discovery:** Fixed an issue where some vCenter ESXi hosts were skipped because the primary network interface did not have an IP address. The system now checks all available network interfaces to identify the host IP. • **Cisco Access Point Classification Fix:** Fixed an issue where Cisco Catalyst 9100 series Access Points were misclassified as Firewalls.
CMDB	• **Role-Based Access for Process Actions:** Fixed the CMDB "**Select Actions**" dropdown. The **Process Job Actions** now respect role-based access, visible only to users with explicit permission. • **Enterprise Service Map - Communication Relationships:** Fixed an issue where **Communicates With relationships** failed to display in the maps in certain cases.
Admin	• **Skipped Records Email After Credential Import:** Fixed an issue where the skipped records notification email was not sent after a credential import. • **Sync Log - Expired Sessions:** Fixed an issue where opening a sync log after session timeout showed an error popup; expired sessions now redirect the user to log in. • **Business Rule Export - Unrelated Columns:** Fixed an issue where the Business Rule export included irrelevant columns; it now contains only Business Rule-specific columns. • **Business Rule - Full Property Set:** Fixed an issue where the Business Rule property dropdown was out of sync; it now exposes all relevant Discovered Items and CMDB properties.
Reports	• **Confidence Level Now Available in Ad Hoc Reports for Configuration Items:** Fixed an issue where the **Confidence Level** field was missing from Ad Hoc Reports under CMDB.
Discovery Application (v6.1.4030) & Discovery Agent (v6.1.124)	• **Discovery Agent Now Registers Correctly in Proxy-Only Networks:** Fixed an issue where the **Discovery Agent** failed to register when the Discovery Application was reachable only through an HTTP proxy. • **Agent Update now Works for Agents Configured to Use a Proxy:** Fixed an issue where Agent Update failed for proxy-configured agents, leaving them on the previous version.

2.3 Required actions post-release

1. Users are advised to **Clear/Delete** their respective Browser Cache before using Service Mapping after the release.
2. Sign in to the Service Mappings web application.
3. Go to the **Admin portal** > **Client (Discovery)** page.
4. Click on the U**pdate** icon  to update version 6.1.4030.

Note: If you click the **Update** button and the application does not update to the latest version, network restrictions may be preventing the update from downloading. In this case, download and install the latest version of the application or manually update it. To manually update the post-release, follow the steps below:

1. Stop the Virima Discovery Application.
2. Click the appUpdates_6.1.4030.zip link and download the update file on the Discovery Application machine.
3. Extract the downloaded ZIP file.
4. Replace the files in the installation directory with the extracted files, using the paths below:

   DAClient.jar --> **C:\Program Files\Virima Discovery Application**
   version.txt --> **C:\Program Files\Virima Discovery Application**

   Note: Copy the individual files from inside the lib folder to the destination.

5. Start the **Virima Discovery Application**.

3 Neurons Service Mapping - Release Notes V6.1.2 (June 2026)

3.1 What's New

Service Mapping	Feature Enhancements
Discovery	• **Easier Identification of Azure Resources:** Azure resources display a readable Subscription Name alongside the Subscription ID, making it easier to identify and manage resources. • **Improved Azure Resource Organization:** Virima automatically maps relationships between Azure Subscriptions and their associated Resource Groups during Azure imports, providing clearer visibility into subscription hierarchies through the Relationships tab and ViVID dependency maps. • **Automatic Discovery of IIS SSL/TLS Certificates:** Deep Host scans automatically detect SSL/TLS certificates used in IIS HTTPS bindings, including issuer, validity, and expiration details, improving certificate visibility and management. • **VLAN Discovery for Network Switches:** SNMP-based network scans discover and display VLAN IDs and VLAN names directly in Switch CI records, helping teams better understand network segmentation. • **Improved vCenter Tag Collection:** vCenter tags are collected more reliably across all supported components. VM tags are also automatically mapped to the correct CI when IP addresses match. • **New Scan Option – "Resolve IP to Hostname":** A new scan mode allows VIRIMA to resolve IP addresses to hostnames before scanning. Devices that cannot be resolved are automatically skipped and marked as Unknown. • **Improved Network Device Serial Number Mapping:** Network device serial numbers are mapped more consistently across discovery results for improved inventory accuracy. • **Enhanced SNMP Discovery for Servers:** Server discovery through SNMP supports additional server properties and component details for richer infrastructure visibility. • **Improved Infrastructure Relationship Mapping for F5 and NetScaler Nodes:** F5 and NetScaler nodes automatically display their relationship to the underlying physical infrastructure in the CMDB and service maps.
CMDB	• **Installed Software Reports for Multiple Windows CIs:** Users can generate consolidated software reports directly from the CMDB list view for multiple Windows systems at once.

	• **Warranty Dates Included in CMDB Exports:** Warranty Start Date and Warranty End Date are now included in CMDB export files to improve asset lifecycle tracking.
Discovery Application (v6.1.4028) & Agent (v6.1.122) Note: This update is optional and only necessary if you want to use the listed improvements.	• **Improved Temporary File Cleanup:** Temporary files created during discovery are cleaned up automatically to help maintain system stability and reduce unnecessary storage usage. • **Improved Certificate Discovery Through Agent Scans:** Windows agent-based scans capture and store certificate information more reliably. • **Faster Agent Schedule Page Performance:** The Agent Schedule page loads faster, provides a smoother user experience. • **Faster Bulk Agent Schedule Deletion:** Bulk deletion of agent schedules is more reliable and performs more efficiently. • **Improved Install and Schedule Workflow:** Agent installation correctly applies scheduled scan settings during setup.

3.2 Fixes

These fixes automatically display upon upgrade and do not disrupt daily use for existing customers.

Service Mapping	Fix
Discovery	• **Improved SSH Discovery Accuracy:** Resolved issues where unexpected special characters appeared in SSH discovery property values. • **Fixed Scheduled Scan Save Issue Using Host Names:** Resolved an issue preventing users from saving scheduled scans when scanning through host names. • **Improved Serial Number Detection for Windows and Linux:** Serial number discovery is more accurate and consistent across physical, virtual, and cloud systems. • **Improved SNMP Switch Discovery:** Switch scans correctly retrieve software versions and hostnames through SNMP discovery. • **Improved Hostname-Based Scanning:** Discovery probes correctly use hostnames instead of IP addresses when hostname-based scanning is selected. • **Consistent Scan Logs in PDF Exports:** Exported scan logs match the on-screen view and include complete log information. • **Correct MSSQL-to-Server Relationship Mapping:** MSSQL instances properly display their associated Windows Server relationships in the CMDB. • **Improved Hyper-V VM Discovery:** Resolved issues affecting discovery of virtual machines hosted on Hyper-V systems. • **Improved Visibility for Hyper-V and Windows Cluster Relationships:** Discovery provides more accurate visibility into Hyper-V VM relationships and Windows cluster node associations.

CMDB	• **Improved MMC Certificate Mapping:** Certificate information discovered through MMC is mapped correctly to each CI, even when multiple hosts share the same IP address.
Admin	• **Fixed Blueprint Export Issue:** Blueprint exports from the Administration page complete successfully without interruption.
Discovery Application (v6.1.4028) & Agent (v6.1.122) Note: This update is optional and only necessary if you want to use the listed improvements.	• **Correct Asset Identification During Initial Agent Scan:** Newly installed agents correctly display the appropriate asset information during the first scan. • **Improved "Last Logged In" Time Display:** The Last Logged In time displays using the user's browser time zone for improved consistency. • **Improved Scheduled Scan Data Collection:** Resolved an issue where some component data was not being collected during scheduled agent scans. • **Improved Stability with Multiple Connected Agents:** The Discovery Application performs more reliably when handling multiple connected agents simultaneously. • **Improved Peripheral Device Serial Number Discovery:** Windows scans extract serial numbers for peripheral devices more accurately. • **Improved Proxy Connectivity for Agent Scans:** Agent-based scans reliably communicate through configured proxy servers. • **"Current Status" Renamed to "Current Activity":** The Discovery Application label "Current Status" is renamed to "Current Activity" for better clarity. • **Improved Installed Software Discovery via Agent Scans:** Installed software is discovered more accurately during agent-based scans. • **Improved Agent Offline State Updates:** Agent state is updated correctly when a Discovery Client goes offline.

3.3 Required actions post-release

1. Users are advised to Clear/Delete their respective Browser Cache before using Service Mapping after the release.
2. Sign in to the Service Mappings web application.
3. Go to the Admin portal > Client (Discovery) page.
4. Click on the update icon to update version 6.1.4028.

Note: If you click the update button and the application does not update to the latest version, network restrictions may be preventing the update from downloading. In this case, download and install the latest version of the application or manually update it. To manually update the post-release, follow the steps below:

1. Stop the Virima Discovery Application.
2. Click the appUpdates_6.1.4028.zip link and download the update file on the Discovery Application machine.
3. Extract the downloaded ZIP file.
4. Replace the files in the installation directory with the extracted files, using the paths below:

   DAClient.jar --> **C:\Program Files\Virima Discovery Application**

version.txt --> **C:\Program Files\Virima Discovery Application**

Note: Copy the individual files from inside the lib folder to the destination.

5. Start the Virima Discovery Application.

4 Neurons Service Mapping - Release Notes V6.1 (Feb 2026)

4.1 Discovery

4.1.1 New Features

- **Juniper Switch Stacks support**

Added support for switch stacks by introducing a new blueprint named "**Switch Stacks**", standardizing terminology across switch stacks, chassis, and related configurations. During discovery through the stack IP address, the main Juniper switch stack is identified as a Switch Stacks CI, and its member switches are discovered as individual Switch CIs. A "**Contains**" relationship is automatically established based on the stack management interface.

- **Oracle Database Discovery**

Added support for Oracle Database system discovery. All database server instances running on Windows or Linux servers are discovered during the Deep Host Scan probe. A "**Runs-On**" relationship is established between the Windows or Linux server and the Oracle Database Server through the Process DevOps job.

- **Nutanix Discovery**

Added support to discover Nutanix network virtualization, along with its underlying components such as VLAN, cluster, and nodes. This feature is implemented as part of the Deep Host Scan, which uses API or shell commands depending on the provided credentials.

- **NetApp AFF_220**

  Added support for NetApp, along with its underlying components such as clusters, nodes, volumes, and disks. This feature is implemented as part of the Deep Host Scan using an API.

- **Standalone ESXi Host via vCenter Discovery**

Ivanti now supports identifying standalone ESXi hosts that are not part of any cluster, providing better visibility into clusterless data center resources.

4.1.2 Feature Enhancements

- **SNMP Scan**
  - Extended support for SNMP-based deep host scans on Windows and Linux systems to include previously missing information, such as IP connections and processes. However, IP connections still contain critical data that cannot be retrieved due to inherent limitations of the SNMP protocol.
  - Added SHA-256 and SHA-512 authentication support for SNMP_V3 credentials.
- **MySQL Database Discovery via Agent-Based Scans (Windows/Linux)**

  The agent-based scan method now supports MySQL discovery.

- **CyberArk**

Included CyberArk support for Deep Host Scan using SSH, SNMP, and Windows (PowerShell). Added support for private key SSH authentication through CyberArk Vault. Implemented as part of Deep Host Scan.

- **Network Device Classification Enhancement (Proposed – may change)**

Enhanced network device classification logic to require extended device information, such as manufacturer, device type, or SNMP system details.

- **AWS Import Enhancements**
  - **Enhanced AWS import capabilities to include services such as Amazon ECS, EKS, App** Runner, AWS Batch, Lambda, Amazon RDS for MySQL, PostgreSQL, MariaDB, Oracle, SQL Server, and Amazon Aurora (MySQL and PostgreSQL).
  - Import now includes the Account ID property across all AWS imported services.
- **Azure Import Enhancements**

Extended Azure import capabilities to include services such as Azure Kubernetes Service (AKS), Azure Functions, Azure Cosmos DB, Azure Storage Accounts, Azure Key Vault, SAP HANA, MongoDB, Neo4J, Oracle Database, and PostgreSQL.

- **Meraki Device**

The Meraki sync process now supports additional properties: Order Number, Claimed At, Expiration Date, and Inventory State.

- **Improved Network Reachability Validation**
  Replaced legacy NMAP, Ping, and Port Query checks in the discovery workflow with Java sockets, providing a more reliable and efficient method to validate network reachability and port availability.
- **Simplified Probe Selection Menu**
  Removed deprecated and unused scan types from the probe dropdown across the application. Removed the following scans: Deep Host Scan VBS, Basic Host Scan, Host Type Scan, Medical Device Scan (Old and New), Internal Debug Scan, Install Software, Registry Scan, Basic Scan, and MS SQL Server Query Scan.
- **Streamlined Scan Scheduling Options**
  Removed minute-level frequency options from the Scan/Import Frequency dropdown in the Schedule Scans and Imports section to simplify user configuration and reduce scheduling errors.

4.1.3 Bug Fixes

- **Fixed Sorting in Scheduled Scans**

Fixed the tabular view in the Scheduled Scans and Imports section (AWS, Azure, and Meraki) to display the most recently modified record at the top.

- **Cisco Switch Discovery**
  Resolved an issue in which the model number was not captured for Cisco switches.
- **Linux Server CPU Detection**
  Fixed an issue that prevented retrieval of CPU details during Linux server scans.
- **Solaris Hardware Discovery**
  Solaris discovery now correctly retrieves hardware attributes such as Manufacturer, Model Number, Hardware Type, and Hardware Model.
- **Import Processing Icon Persistence**
  Fixed a UI issue in Import Asset/CI Relations in which the processing icon continued to display after the import completed.
- **IIS, ARR, and Hyper-V Discovery via PowerShell**
  Fixed a bug in which IIS, ARR, and Hyper-V components were not properly discovered when using the PowerShell JEA probe.
- **Azure Credential Validation**

Azure credential addition now properly validates Subscription ID and Management Group ID, improving security and setup accuracy.

- **Azure Virtual Machine Import**
  Fixed a bug in which Availability Zone information was missing from Azure VM import records.
- **EC2 Instance Property Retrieval**
  - Corrected missing data for Instance Lifecycle.
  - Fixed the Launch Time field, which previously displayed inaccurate timestamps.
- **Linux Scan Sorting Error**
  Fixed a bug that caused an Internal Server Error when sorting Listening Process commands under Discovered Item > Components.
- **AWS Organization Unit Import**

Fixed an issue in which accounts under an AWS Organization Unit (OU) were not fetched or processed in parallel when credentials were added.

- **SNMP-Based Switch Discovery**
  Fixed a discovery issue in which network interface information was not retrieved through SNMP during switch scans.
- **Discovery/CMDB – "Log on Events" Not Rendering Information**
  Resolved an issue in which the "**Log on Events**" section in the Discovery and CMDB modules failed to display login activity data.

4.2 CMDB

4.2.1 New features

- **Windows Installed/Uninstalled Software Report**

Added support to export a report on installed and uninstalled software. You can generate this report for a specific CI or the entire CMDB.

- **Unauthorized CI Count Tracking for Enhanced Compliance Visibility**

Developed and integrated an Unauthorized CI Count widget into the CMDB dashboard to enable users to track non-compliant assets.

4.2.2 Feature Enhancements

- **One-Click CMDB Access from Left Menu**

The CMDB is now directly accessible from the left-side navigation menu, enabling instant and intuitive access to the full suite of CMDB features without disrupting the legacy workflow.

- **Zoom Functionality in Business Service Maps**

Zoom functionality in Business Service Map views can be performed using the mouse wheel.

4.2.3 Bug fixes

- **Dropdown Display Issue**
  Fixed a display bug where multi-word dropdown values in the CMDB Properties configuration were missing spaces.
- **Stuck Process Jobs**
  Addressed an issue where process jobs would become unresponsive in certain cases.
- **Vulnerability Management Association**
  Deleted Configuration Items (CIs) are now properly disassociated from the Vulnerability Management page after removal from the CMDB.
- **CI Creation Form – Input Field Fix**
  In CMDB > Add New CI, mandatory dropdown fields were incorrectly rendered as free-text inputs. These now appear correctly as dropdown selectors.
- **Excel Export Timestamp Format**
  Corrected the format of the 'Completed At' field in Excel exports, which previously showed a Unix timestamp instead of a human-readable date.
- **CI Visibility in Tags Module**

Fixed an issue in the Tags module in which associated CIs were not displayed as expected.

- **Incorrect AWS EBS Timestamps**
  Resolved a formatting issue in which the created date and time for AWS EBS volumes were displayed incorrectly in the CMDB.

4.3 ITSM and ITAM

4.3.1 New features

No updates in this release.

4.3.2 Feature Enhancements

- **Procurement Enhancement**

Enhanced the Procurement modules with support for adding custom properties and property groups, viewing PO line items and Pending Receiving Slip Line within the PO record, and controlling workflow between modules using business rules.

4.3.3 Bug fixes

- **Description Field Error**
  Fixed an issue were entering large amounts of text in the Description field caused an application error during the Add operation.
- **Missing Incident Properties**
  Resolved a UI issue where the properties "**2nd Level Support in Charge**", "**2nd Level Group in Charge**", "**3rd Level Support in Charge**", and "**3rd Level Group in Charge**" were not displayed in the Incident model.

4.4 Integration

4.4.1 New features

- **ServiceNow Integration: Sync log and Reverse sync**
  - Added support to display the sync logs and to provide visibility into integration activities by capturing key metadata such as sync status, timestamps, initiating user, and data transfer details.
  - Added support to abort the sync, letting users stop an ongoing process to prevent incorrect data transfer, ensure integrity, and resync cleanly.
  - Implemented Reverse Sync functionality to allow validated updates from ServiceNow to be reflected inside Ivanti CMDB, ensuring bidirectional data consistency.

4.4.2 Feature Enhancements

- **Ivanti JSON Components Optimization**

Optimized the "**Copy to Ivanti**" functionality within the Ivanti JSON components module for significantly improved performance.

4.4.3 Bug Fixes

No Bug fixes in this release.

4.5 Admin

4.5.1 New Features

- **Credential Import**
  Ivanti now supports credential import through the Admin Import interface, simplifying the process of bulk credential onboarding.
- **User Creation with Auto-Generated Passwords**
  During user creation, admins can now use a **Generate Password** link to quickly create and edit secure passwords.
- **Multi-Factor Authentication (MFA) Support**
  MFA has been introduced for users authenticated via Azure AD and Active Directory, improving access security.
- **Agent-Based Scan Shortcut**
  From the Agents page, users can now trigger a scan directly. The system auto-populates the agent's IP address and redirects to the **Run a Scan** interface for faster execution.

4.5.2 Enhancements

- **Custom Alert Recipients for Discovery App Downtime**
  Users can now configure custom recipients in the **Client Page** to receive alerts when the Discovery Application becomes inactive.
- **Attribute Label Updates for Improved Clarity**
  The following labels in the **Client Page** have been renamed for better understanding:
  - "**Agent Auto Update Through App Enabled**" → Agent Auto-Update
  - "**App Auto Update Enabled**" → Client Auto-Update
  - "**Scan Through Agent Enabled**" → Scan Through Agent
- **SAML Metadata Export Naming Improvement**
  When exporting **SAML metadata** from Ivanti, the system now names the downloaded file based on the SAML Configuration name, making it easier to track and organize.

4.5.3 Bug Fixes

- **Cost Center Access Alert**
  Resolved the “**You don’t have access**” alert that appeared when attempting to add or edit Cost Center entries.
- **Blueprint Save Error – Linux Server**
  Fixed an issue in Blueprint > Linux Server > Property List were updating the "**Processor Architecture**" property and saving it caused an application error.
- **Sync Not Triggering on Multiple CI Changes**

Fixed an issue where Business Rules failed to trigger sync when users added or edited multiple CIs at once.

- **"Map from Triggered" Value Mapping Failed in Business Rule Action Block**

Fixed an issue in which the “**Map from Triggered**” option in the Create New Record action block of a Business Rule did not map values from the triggering record.

4.6 Reports

4.6.1 New features

No updates in this release.

4.6.2 Feature Enhancements

- **Expired Certificate report addition**

Added “**Expired Certificates**” report to the reporting module, providing a real-time list of certificates nearing expiry (i.e., with expiration dates earlier than today).

4.6.3 Bug Fixes

- **Horizontal Scrollbar Missing in Tabular Graphs**
  Fixed an issue where the horizontal scrollbar did not appear in reports with many columns, affecting usability.
- **Missing ID Property in Reports**
  Resolved a problem where the "**ID**" property was not displayed in certain modules.
- **Duplicate Records in ITAM Audit Reports**
  Addressed an issue where ITAM audit reports sometimes generated duplicate records.

4.7 MSP

4.7.1 New features

- **Automatic Client Association During User Import**
  During user import, the system now automatically links users to clients if the client exists and matches the value in the import file.

4.7.2 Feature Enhancements

No updates in this release.

4.7.3 Bug Fixes

- **Broken Link for SAML Configuration**
  Clicking the associated record for SAML Configuration on the MSP User page now correctly redirects to the SAML Configuration screen.
- **Date Filter Operators Missing in MSP Reports**
  Restored "**IN**" and "**NOT IN**" operators for date fields in MSP Reports, improving filtering capabilities.
- **Export Icon Not Generating Link**
  Fixed an issue where clicking the export icon in the MSP Portal Dashboard did not generate a downloadable link.

- **Application Error on Refresh**
  Resolved an issue were clicking the refresh button for reports on the My Dashboard page triggered an application error.
- **Unauthorized Incident Creation by End Users**
  Disabled the "**Create Incident**" button for End Users logged into the MSP Portal to prevent unauthorized incident submissions.

4.8 Discovery Application (v6.1.4021) & Agent (v6.1.116)

4.8.1 New features

- **Keystore for Storing common. properties**
  Added support to move all the confidential properties inside common. properties to an encrypted keystore file.
- **Java Runtime Upgrade**
  The application and agent have been upgraded from Java 1.8 to Java 21, delivering major improvements in performance, security, and future compatibility.

4.8.2 Feature Enhancements

- **Discovery Agent Minor Version Update Support**
  Enhanced the Discovery Agent to support seamless minor version updates across all dynamic versions.
- **Agent Build with mTLS Support**
  Agents now support Mutual TLS (mTLS) connections with the Discovery Application, enabling secure certificate-based communication for enhanced data protection and identity verification.

4.8.3 Bug Fixes

- **Credential Flush Not Removing JEA Configuration**
  Fixed an issue where flushing credentials failed to remove the JEA configuration name, resulting in outdated references.
- **Incorrect Handling of Credential Activation Status**
  Fixed a problem where credentials marked as inactive were incorrectly saved as active in the Discovery Application.

4.9 Global Platform Changes

4.9.1 Security Improvements

- Overall application security has been improved by upgrading the SaaS supporting software and libraries to the most stable and secure version.

4.9.2 Feature Enhancements

- **Improved Navigation with Mouse Scroll Support**
  Added mouse scroll support to allow users to view primary details such as Owner and other key metadata more efficiently.
- **Frozen table header**
  Implemented frozen table headers to maintain visibility of column titles when scrolling through datasets that extend beyond the visible screen, improving usability and data readability.
- **Confirm Delete operation before committing to DB**
  Delete actions now require user confirmation before being deleted permanently, reducing the risk of accidental data loss.

5 Neurons Service Mapping - Release Notes V5.13 (Dec 2024)

Note: Before using Ivanti Neurons for Service Mapping post-release, you're advised to clear or delete your browser cache. See below for procedures to update to the latest version.

5.1 What's new

Service Mapping	New feature or enhancement
Discovery	• Added support for discovering MMC Certificates, Apache Webserver, and Apache Tomcat Server using the PowerShell probe. • Fixed issues related to scan completion marking. • Added the ability to install the Linux Agent through the application. • Added VLAN support for Meraki import. • Added support for Organization Unit ID in AWS imports. • Included certificate-based authentication support for Azure imports. • Added support for handling the German language in IP connections and listening process data output. • Trimmed the domain portion from the hostname for the SSH probe. • Added object support in the search parameter for CyberArk credentials.
MSP	• Added SAML support for MSP user authentication.
Adhoc Reports	• Changed the "Within" operator display name to "Within Last".
Discovery Application and Agent	**Discovery Application (v1.0.4019):** • Updated the SSH cipher suites to align with the latest recommendations from OpenSSH. • Added object support in search parameter for CyberArk credentials.

5.2 Fixes

These fixes automatically display upon upgrade and do not disrupt daily use for existing customers.

Fix	Description
Discovery	• Resolved an issue where certain installed software was not being retrieved on Windows hosts using WMIC and PowerShell probe. • Resolved an issue with excluding IPs from scans when using Nmap. • Fixed an issue where the serial number value was displayed twice for the ESXi server.
CMDB	• Resolved an issue where stale records for certain components were not being cleared during move. • Fixed issues related to IIS Server, Websites and Folders. • Fixed an issue that prevented VLAN data from being displayed inside the switch.
Adhoc Reports	• Addressed sending email fail issue.
Integrations	• Improved the performance of ISM sync through optimization.
Discovery Application & Agent	**Discovery Application (v1.0.4019):** • Resolved an issue where the remote installation of the Linux agent through application was failing. • While adding made a check with username and password while saving the credentials is fixed.

5.3 Required actions post-release

Post-release, follow these steps to ensure a smooth transition and to take advantage of the latest updates:

1. Clear or delete your browser cache before using Service Mapping after the release.
2. Sign in to the Service Mapping web application.
3. Navigate to the **Admin** portal > **Client (Discovery)** page.
4. Click the update icon  to update to version **1.0.4019**.

Note: If you've clicked the update icon but your application is still not updating to the latest version, restrictions on your network may be preventing the updates from downloading.

In such a case, you'll need to download and install the most recent version of the application manually. To do so, follow these steps:

1. Stop the current application.
2. Back up the following files:
   - C:\Program Files\Virima Discovery Application**cat.json**
   - C:\Program Files\Virima Discovery Application**hcm.json**
   - C:\Program Files\Virima Discovery Application**session.txt**

- C:\Program Files\Virima Discovery Application\config**configuration.xml**

3. Uninstall the application.
4. Delete the old application record from:

   https://servicemapping-***yourregion***.ivanticloud.com/www_em/pages/probe/?entity=clients

5. Download the latest version of the application from:

   https://servicemapping-***yourregion***.ivanticloud.com/www_em/pages/adminHome/?entity=adminHome

6. Install the latest version of the application.
7. Replace the backed-up files.
8. Under Windows Services logon, add the service account permissions for the Virima Discovery Application.
9. Start the application as an administrator.
10. Verify that all the required credentials are active in the Discovery Application Credentials section.

6 Neurons Service Mapping - Release Notes V5.12 (Aug 2024)

Note: Before using Ivanti Neurons for Service Mapping post-release, you're advised to clear or delete your browser cache. See below for procedures to update to the latest version.

6.1 What's new

Service Mapping	New feature or enhancement
Discovery	• Added support for importing assets from Microsoft Intune and Microsoft SCCM. • Added support for sending email reports for the Schedule Scan Import feature. • Renamed the probe from 'Deep Host Scan for Windows Devices (PowerShell)' to 'Deep Host Scan - SSH | SNMP | Windows(PowerShell)'. • Renamed the probe from 'Deep Host Scan for Windows/Linux/Network Devices (WMIC)' to 'Deep Host Scan - SSH | SNMP | Windows(WMIC)'. • In the Vulnerability Management module, if multiple CIs are associated with the same CPE URI, all Asset IDs are now displayed, separated by commas. • Added a field called "Operational Status" for Blueprint Virtual Machines when importing Azure records. • Added support for scheduling imports for Azure, AWS, and Meraki. • Added support for using "ip addr" as an alternative command to fetch IP addresses on Linux OS. • Added support for discovering a Juniper Chassis. • Implemented support to set the status of the connected agent to false if the Discovery Client goes down. • Added support for ping in the PowerShell scans.
CMDB	• Added support for displaying both the Add and Cancel buttons when selecting a Blueprint while adding a CI from the UI. • Implemented support for flagging parent CIs as vulnerable in the BSM Map View when a child CI is vulnerable. • Added support for enabling the Network view in BSM map views for all blueprints.
Integrations	• Implemented support for users to delete ServiceNow Mappings. • Added support for advanced search options for mapping Ivanti, Cherwell, and Jira link properties. • Added a help link for the ServiceNow credentials popup. • Added support to include Boolean properties in a ServiceNow copy.
Admin	• Added support for users to return from the Map Property tab to the Configuration tab in Ad Configuration.

Reports	• Added support for including user properties in Ad hoc Reports.
Discovery Application & Agent	Discovery Application (v1.0.4018) & Agent (v1.0.113): • Enhanced the App and Agent update processes to include periodic checks and the ability to download the agent from the Discovery Server. • Added support for Linux-based agents. • Implemented support for users to build an agent for Windows and Linux hosts. • Added support for importing credentials on the Discovery application. • Added support for bulk deleting and flushing credentials on the Discovery application. • Added a feature to mask the 'Configuration Name' value during data entry for Windows credentials type. • Added support for Windows Agent scans via PowerShell probes. *(**Note**: Requires Discovery App version 1.0.4018 or higher)*

6.2 Fixes

These fixes automatically display upon upgrade and do not disrupt daily use for existing customers.

Fix	**Description**
Discovery	• Fixed the issue where sorting the column for the resource group in the 'Import from Azure' module was not working correctly. • Fixed the issue where the count of edited users was not updating in the Import logs after importing from AD and Azure AD. • Resolved the issue where customizing columns for applied filters displayed all records instead of only the filtered ones, specifically for the AWS, Azure, and Meraki modules. • Fixed the issue where the 'Imported On' date was not updating when importing AWS records. • Fixed the issue where 'JBoss' CI records were created even though the host did not have JBoss running. • Fixed the issue where some host CIs incorrectly included information from a different host. • Addressed an issue with certain scans failing to update their status to Completed.
CMDB	• Fixed the issue where the tabular order was not displaying correctly after deleting a CMDB record from the Details tab. • Fixed an issue where the value of a Custom Date field in CI records was displayed in timestamp format. • Addressed an issue with the date and time format while importing CIs. • Addressed an issue where an IIS Server duplicate record was being created.

Vulnerability Management	• Resolved the issue in Vulnerability Management where the total number of records displayed did not align with the pagination settings. • Fixed the issue with filtering CVE data by selecting the published year from the drop-down. • Resolved the application error encountered while filtering columns for CVEs in Vulnerability Management.
Integrations	• Fixed the issue where property mappings in Jira mappings for certain blueprints were not displaying correctly. • Resolved the filter issue in Incidents and Changes within the 'CMDB for ServiceNow' module. • Resolved the issue where filtering the Status field on the My Request page was failing. • Resolved the issue where updating condition mappings for blueprints from Ivanti and Cherwell were not applying correctly. • Addressed an issue where 'Communicates With' relationships were failing to be copied. • Resolved an issue where the CI history showed the CI was copied to Ivanti, but the record details had it as false.
Business Rule	• Fixed the issue where the action type 'Create New Record' was not visible in the Discovery module. • Added an alert for missing mandatory link properties when creating a business rule. • Resolved the issue where updating the Hardware Assets business rule was removing associated configuration items from the corresponding records.
Admin	• Addressed an issue where updates to a user's display name were not being reflected in the tabular view across all modules.
Reports	• Resolved an issue where the properties names for Hardware, Contract, and Vendor in Reports did not match those in the main models. • Fixed a bug where duplicate reports with the same name were created when reports were scheduled.
General	• Fixed the issue where the Advanced Search results did not clear previously searched values when changing operators to 'Not Empty' and 'Is Empty'. • Resolved the issue where certain scheduled jobs were not being triggered as scheduled. • Fixed an issue in SAML where email addresses added as claims in the Service Provider portal were not reflected in service mappings. • Addressed issue related to personalized columns.
Discovery Application & Agent	Discovery Application (v1.0.4018) & Agent (v1.0.113): • Fixed the issue where the agent's 'Last Scanned On' date was not updating correctly.

	*(**Note**: Requires Discovery App version 1.0.4018 or higher)*

6.3 Required actions post-release

Post-release, follow these steps to ensure a smooth transition and to take advantage of the latest updates:

1. Clear or delete your browser cache before using Service Mapping after the release.
2. Sign in to the Service Mapping web application.
3. Navigate to the **Admin** portal > **Client (Discovery)** page.
4. Click the update icon  to update to version **1.0.4018**.

Note that if you've clicked the update icon but your application is still not updating to the latest version, restrictions on your network may be preventing the updates from downloading.

In such a case, you'll need to download and install the most recent version of the application manually. To do so, follow these steps:

1. Stop the current application.
2. Back up the following files:
   - C:\Program Files\Virima Discovery Application**cat.json**
   - C:\Program Files\Virima Discovery Application**hcm.json**
   - C:\Program Files\Virima Discovery Application**session.txt**
   - C:\Program Files\Virima Discovery Application\config**configuration.xml**
3. Uninstall the application.
4. Delete the old application record from:

   https://servicemapping-***yourregion***.ivanticloud.com/www_em/pages/probe/?entity=clients

5. Download the latest version of the application from:

   https://servicemapping-***yourregion***.ivanticloud.com/www_em/pages/adminHome/?entity=adminHome

6. Install the latest version of the application.
7. Replace the backed-up files.
8. Under Windows Services logon, add the service account permissions for the Virima Discovery Application.
9. Start the application as an administrator.
10. Verify that all the required credentials are active in the Discovery Application Credentials section.

7 Neurons Service Mapping - Release Notes v5.11 (June 2024)

Note: Before using Ivanti Neurons for Service Mapping post-release, you're advised to clear or delete your browser cache. See below for procedures to update to the latest version.

7.1 What's new

Service Mapping	New feature or enhancement
Discovery	• Enhanced functionality to identify network interfaces on switches. • Implemented functionality to discover RedHat JBoss running services. • Streamlined Vulnerability Management processes for improved efficiency. • Expanded capabilities to recognize Aruba Switches during discovery. • Extended support for discovering Dell Switches within the network. • Implemented PowerShell JEA support to enable discovery of Windows machines. • Optimized discovery process for IIS websites and their associated applications. • Added support to include multiple ports for each scan type.
CMDB	• Enabled network view for all blueprint types in the Business Service map. • Revised relationships from IIS websites to applications in Process DevOps. • Introduced a new Vulnerability tab to provide detailed information on associated vulnerabilities for respective configuration items (CIs). • Implemented functionality to abort process jobs.
Integrations	• Properties in the Mapping page condition block are displayed based on their respective types.
Admin	• Implemented auto-reordering functionality in the CMDB Properties module. • Enhanced import capabilities by adding support for importing Azure resources via the Azure Management Group ID. • Expanded import capabilities by adding support for importing AWS resources via Root and Organization units. • Enhanced user import functionality in the User Management module to consider email as the username when username is not present. • Implemented a hidden enable field for apply-to-existing in the Business Rules module, improving the user experience. • Enabled users can now deactivate schedules in the Azure and AWS imports without requiring additional inputs.
Reports	• Email reports will now include a link to download the report instead of attachments.

Discovery Application & Agent	Discovery Application (v1.0.4017) & Agent (v1.0.112): • Added support for PowerShell scan. • Added support for bulk activation of credentials. *(**Note**: Requires Discovery App version 1.0.4017 or higher)*

7.2 Fixes

These fixes automatically display upon upgrade and do not disrupt daily use for existing customers.

Fix	**Description**
Discovery	• Resolved the issue where the agent status remained connected even after the Discovery application went down. • Fixed the problem with scanning subnets when Nmap is enabled. • Resolved the issue with scanning subnets when scanning through agent and Nmap is enabled. • Fixed the issue with installing agents when Nmap is enabled. • Resolved the issue related to importing scheduled records with an IP-range parameter exceeding 1024 IPs in Excel per schedule. • Fixed the incorrect time format displayed for the Last Scanned On property. • Resolved the issue of duplicate and host down logs being printed in the Logs tab in the Recent Scan module. • Fixed the problem where Azure AD User import scans displayed all users under the New Users link instead of newly imported users. • Resolved an issue where an incorrect CI was associated with an agent when moving CIs to the CMDB. • Fixed an issue related to agent proxy.
CMDB	• Resolved an issue that caused duplicate CIs to be created upon merging.
Integrations	• Resolved an issue in Ivanti sync where moving a software instance component would trigger an exception. • Updated ServiceNow mappings to display both the display name and table name for ServiceNow table names. • Fixed the display issue in CMDB where changes were incorrectly labeled as 'Incident ID' instead of 'Change ID' for ServiceNow. • Implemented a solution in ServiceNow integration to automatically create a Virima API key if the logged-in user does not have one during ServiceNow credential save. • Addressed ServiceNow API issues for incidents and changes. • Fixed a bug where 'OLA' was incorrectly set as the default value for a Cherwell object on new mappings creation. • Resolved a JavaScript error encountered when clicking on a new Cherwell mapping.

	• Fixed an issue in the Cherwell Credentials module where entering and saving a new API key would still retrieve the old API key from the database. • Fixed a bug in the Cherwell Mappings page where changes in Cherwell property mappings were not reflected properly. • Fixed a display issue in Sync Logs where Jira fields were shown twice after filtering and applying some fields from personalized columns. • Fixed a bug in Jira sync where CIs with the same asset name copied separately would create duplicates in Jira. • Improved error messaging and alerts in Jira. • Fixed an issue in Jira Incident and Change mappings where added properties were not displayed when 'Reporter' was selected for Jira Property. • Implemented a solution in Jira to pull issues to Virima independently of the presence of CIs in Jira when 'Custom' is selected. • Fixed pagination issue in the Jira CMDB to display all issues under Incidents and Changes. • Addressed configuration issues in the Jira Credentials page.
Admin	• Adjusted the date format for the Triggered At and Import Completed At fields in the exported AD configuration data. • Fixed issues with AD and Azure AD filters. • Fixed validation and alert issues for AWS, Azure, and Meraki credentials on the Credential page. • Fixed a refresh issue in the User Management module. • Implemented restrictions on group order, property order, priority, and UI order number to accept up to 3 digits in the CMDB Properties module. • Fixed a problem where Action blocks were failing to trigger via Event Management. • Fixed Phone Number field formatting issue on the Organization Details page. • Fixed filter issues on the Users and Credentials pages for the Active field. • Fixed an issue with advance search on the landing page in the User module. • Implemented a fix where selecting 'Associate All Blueprints' now displays all blueprints in the UI in business rules.
Reports	• Fixed a bug where duplicate reports with the same name were created when reports were scheduled.
General	• Fixed an issue where saved multiple filters and their default settings were not being displayed correctly after saving. • Fixed a bug where selected column names were displayed twice in the Import Mapping popup. • Implemented handling of special characters when exporting data from the User Group, Department, and Audits modules.

Discovery Application & Agent	Discovery Application (v1.0.4017) & Agent (v1.0.112): • Fixed issues related to Nmap. *(**Note**: Requires Discovery App version 1.0.4017 or higher)*

7.3 Required actions post-release

Post-release, follow these steps to ensure a smooth transition and to take advantage of the latest updates:

1. Clear your browser cache to view any recent updates.
2. Sign in to the Service Mapping web application.
3. Navigate to the **Admin** portal > **Client (Discovery)** page.
4. Click the update icon to proceed with updating to version **1.0.4017**.

Note that if you've clicked the update icon but your application is still not updating to the latest version, restrictions on your network may be preventing the updates from downloading.

In such a case, you'll need to download and install the most recent version of the application manually. To do so, follow these steps:

1. Stop the current application.
2. Back up the following files:
   - C:\Program Files\Virima Discovery Application**cat.json**
   - C:\Program Files\Virima Discovery Application**hcm.json**
   - C:\Program Files\Virima Discovery Application**session.txt**
   - C:\Program Files\Virima Discovery Application\config**configuration.xml**
3. Uninstall the application.
4. Delete the old application record from:

   https://servicemapping-***yourregion***.ivanticloud.com/www_em/pages/probe/?entity=clients.

5. Download the latest version of the application from:

   https://servicemapping-***yourregion***.ivanticloud.com/www_em/pages/adminHome/?entity=adminHome.

6. Install the latest version of the application.
7. Replace the backed-up files.
8. Under Windows Services logon, add the service account permissions for the Virima Discovery Application.
9. Start the application as an administrator.
10. Verify that all the required credentials are active in the Discovery Application Credentials section.

8 Neurons Service Mapping - Release Notes v5.10 (Feb 2024)

Note: Before using Ivanti Neurons for Service Mapping post-release, you're advised to clear or delete your browser cache. See below for procedures to update to the latest version.

8.1 What's new

Service Mapping	New feature or enhancement
Discovery	• Added a standalone probe to discover MSSQL servers without scanning the host server. • Enhanced the support to discover host applications configured in IIS redirections (ARR). • Added support for JBOSS and its application discovery.
CMDB	• Extended CI import functionality to include Warranty Start Date and Warranty End Date. • Added support to include getting connected devices for switches inside the Process Network Connection job. • Optimized Software Installation and ADM Process Jobs functionalities.
Integrations	• Enhanced JIRA integration functionality by adding support for filters to choose projects and issue types. • Added support to enable/disable mappings in JIRA. • Added clone and reset support for JIRA mappings. • Added support to reset JIRA integration settings (excluding sync logs). • Added support to include communication relationships syncs in ITSM. • Added an option to reverse sync data from ITSM into Virima. • Extended support to include Virima ID and Virima Asset ID inside Virima properties in ITSM mappings. • Added support to encrypt Ivanti and Cherwell API keys for data at rest.
Admin	• Added 'Copy to JIRA' support within business rules. • Added support to autofill property order when a new CI property is added. • Added support to import CI properties. • Added support to include a 'Select All' option inside Business rule blueprint associations. • Renamed the Platform types in 'Discovery Scan configuration' to match scan types rather than Blueprints.
General	• Removed global search functionality support.
Discovery Application	• Added support for SHA-2 type key-based authentication. • Added proxy support for the Discovery agent. • Added log rotation support for stderr.log and stdout.log files inside the Discovery application. *(**Note**: Requires Discovery App version 1.0.4014 or higher)*

8.2 Fixes

These fixes automatically display upon upgrade and do not disrupt daily use for existing customers.

Fix	Description
Discovery	• Resolved a challenge with the NMAP scan. • Addressed an issue related to log.txt file rotation in the Discovery application and agent. • Addressed a situation where AWS import failed to bring in certain attributes from AWS resources. • Fixed an issue where SSL certificate discovery added certificates without names. • Addressed an issue associated with Meraki import. • Fixed a problem that prevented scheduled tasks from updating when the cron was changed. • Resolved an issue related to discovery export. • Addressed an issue where 'Recognized Virtual Machine' was not displayed inside the ESXi CI record. • Addressed an issue where a duplicate Windows OS type Software CI was created. • Resolved the issues related to Website Scan Probe. • Addressed an issue that failed to display the time for 'Created On' and 'Last Modified On' asset properties in the Discovery Tabular page. • Addressed an issue related to Azure import. • Resolved an issue where Dell Manufactured CIs failed to retrieve Warranty Date from Dell. • Addressed an issue where Printer discovery failed when Hostname was set as co-relator. • Addressed an issue that caused the scan results to display other scans results when ping check via NMAP is enabled.
Integrations	• Resolved an issue related to JIRA assets sync. • Fixed an issue that failed to show the 'Remaining Records to Sync' value inside JIRA sync logs. • Addressed an issue where certain components failed to sync in ITSM. • Fixed an issue where Virima Incidents were shown inside JIRA Incidents under CMDB ITSM. • Addressed an issue that displayed incorrect sync counts inside sync logs when a sync is aborted. • Fixed an issue that prevented certain object sub-types from appearing inside ITSM mapping page.
Admin	• Address a business rule issue causing duplicate discovered assets and Configuration Items (CIs) when the rule included a change blueprint action.

	• Fixed an issue resulting in the creation of duplicate CIs and Components during CI merge. • Addressed a problem where some user attributes from Active Directory could not be imported. • Resolved an issue where priority/order became mandatory when the business rules trigger was set to 'apply to existing'. • Addressed a filter issue within CMDB Property Groups. • Fixed filter issues within the Discovery Client page. • Addressed an issue that prevented the update of the Country field inside the Organizational Details page. • Resolved an issue with Hardware properties of CMDB inside Business rules. • Fixed an issue where certain user properties were not imported via Active Directory. • Addressed an issue where End Users records were not fetched inside Business Rules condition and action blocks. • Fixed an issue where SAML user modifications were not reflected inside Virima user records. • Addressed an issue preventing users from entering passwords after the user is imported. • Resolved an issue where the 'Apply to Existing' action failed inside Business Rules for Request modules. • Addressed an issue where User email preference configuration was not getting updated.
Reports	• Fixed an issue related to export report data. • Addressed an issue where certain reports fetched incorrect data when drilled down. • Addressed an issue related to Hardware module properties.
General	• Resolved issues pertaining to search filters throughout the entire application. • Addressed an issue related to User Department exports.
Discovery Application	• Addressed an issue where the Discovery application failed to load the added credentials on application restart. *(**Note**: Requires Discovery App version 1.0.4014 or higher)*

8.3 Required actions post-release

Post-release, follow these steps to ensure a smooth transition and to take advantage of the latest updates:

1. Clear your browser cache to view any recent updates.
2. Sign in to the Service Mapping web application.
3. Navigate to the **Admin** portal > **Client (Discovery)** page.
4. Click the update icon  to proceed with updating to version **1.0.4014**.

Note that if you've clicked the update icon but your application is still not updating to the latest version, restrictions on your network may be preventing the updates from downloading.

In such a case, try downloading and installing the most recent version of the application manually. To do so, follow these steps:

1. Download the latest application.
2. Back up the following files:
   - C:\Program Files\Virima Discovery Application**cat.json**
   - C:\Program Files\Virima Discovery Application**hcm.json**
   - C:\Program Files\Virima Discovery Application\config**configuration.xml**
3. Uninstall the current application.
4. Install the latest application.
5. Replace the backed-up files.
6. Start the application.

9 Neurons Service Mapping - Release Notes v5.9 (Nov 2023)

Note: You're advised to clear or delete your browser cache before using Ivanti Neurons for Service Mapping post-release.

9.1 What's new

Service Mapping	New feature or enhancement
Discovery	• Added support for CyberArk integration. • Added support to fetch Azure SQL managed instances through Azure import. • Added Nmap support to identify hosts and host types during scans. • Added support to activate/deactivate credentials. • Added support for MS SQL discovery via agents. • Added support to include status history of the discovery application. • Added support to include the status history of the Discovery application. • Added support for proxy in Discovery application and agent.
CMDB	• Re-added support for CMDB drop-down type properties. • Removed the restriction that disallowed users to assign end users as owner and support user.
Integrations	• Added support for JIRA service management. • Optimized Ivanti and Cherwell sync functionality for better performance. • Added support to show sync progress inside Ivanti and Cherwell sync logs. • Added support for deleting sync log entries for Ivanti and Cherwell. • Added support to disable\enable Ivanti and Cherwell mappings. • Added email notification to notify users when a sync is aborted.
Admin	• Enhanced and optimized Hardware, Contract, and Vendor management features. • Added additional default ad-hoc reports.

9.2 Fixes

These fixes automatically display upon upgrade and do not disrupt daily use for existing customers.

Fix	Description
Discovery	• Addressed an issue with IBM AIX servers not getting discovered. • Resolved issues with Apache Web Server and Apache Tomcat Server discovery relationships. • Fixed an issue where the progress indicator for AWS and Azure imports was not visible. • Addressed an issue related to an MS SQL Server query scan. • Fixed an issue where AWS import for EC2 instances displayed empty fields. • Scan Total Time has been corrected when exporting a recent scan. • Fixed discovery monitoring properties. • Fixed a bug where the Location field on the Schedule Scan List page would always show an empty value. • Fixed an issue where MS SQL discovery was failing in some rare cases. • Fixed an issue that failed to fetch a process name for Linux processes. • Fixed an issue that failed to fetch a serial number for Linux hosts. • Addressed an issue in schedule scan bulk update. • Resolved an issue that prevented tags from being associated with imported assets on edit. • Addressed an issue where the MSQL server was not being discovered via WMIC probe. • Addressed an issue that failed to discover certain Cisco devices. • Added the default correlator property to the Network Storage blueprint. • Addressed an issue where Azure import status was not set to completed.
CMDB	• Fixed an issue related to exporting Software License Keys. • Fixed an issue where the blueprints' icons weren't updating when you clicked the update icon on the Blueprint page. • Addressed an issue with filters for the time zone property under CMDB Maintenance. • Resolved a problem with deleting properties in the CMDB. • Resolved an issue with the CMDB property group order. • Addressed an issue that allowed users to add duplicate property groups. • Addressed an issue in Merge CI that caused duplicate CIs.
Integrations	• Addressed an issue with operators inside mapping conditions. • Addressed filter-related issues in sync logs and mapping pages. • Fixed a problem where, despite failing, a CI was displayed in both the Success and Failed sections.

	• Addressed an issue where duplicate records were synced in ITSM. • Addressed an issue that failed to retrieve all the sub-types of an object.
Admin	• Addressed an issue where notification was not sent on add/edit/delete locations records. • Fixed issues related to business rule condition check. • Fixed an issue that allowed users to select invalid operators for Integer and Date fields inside business rules. • Addressed an issue where scheduled business rules were triggered, along with other rules, when cascade was set to true. • Addressed an issue in the business rules that caused duplicates when changing the blueprint of the triggered record. • Addressed an issue that failed to merge the CI/assets with the same co-relator value when the CI blueprint is changed.
Reports	• Fixed an issue related to CI relationship queries. • Fixed an issue in Custom Reports that showed duplicate values for certain queries.
General	• Fixed an issue related to page auto-refresh functionality. • Resolved a problem that prevented the application from showing recently added records at the top.

10 Neurons Service Mapping - Release Notes v2023.4 (Oct 2023)

Note: You're advised to clear or delete your browser cache before using Ivanti Neurons for Service Mapping post-release.

10.1 What's new

Service Mapping	New feature or enhancement
Discovery	• Added support for CyberArk integration. • Added support to fetch Azure SQL managed instances through Azure import. • Added Nmap support to identify hosts and host types during scans. • Added support to activate/deactivate credentials. • Added support for MS SQL discovery via agents. • Added support to include status history of the discovery application.
CMDB	• Re-added support for CMDB drop-down type properties.
Integrations	• Added support for JIRA sync. • Optimized Ivanti and Cherwell sync functionality for better performance. • Added support to show sync progress inside Ivanti and Cherwell sync logs. • Added support for deleting sync log entries for Ivanti and Cherwell. • Added support to disable\enable Ivanti and Cherwell mappings.
Admin	• Enhanced and optimized Hardware, Contract, and Vendor management features. • Added additional default ad-hoc reports.

10.2 Fixes

These fixes automatically display upon upgrade and do not disrupt daily use for existing customers.

Fix	Description
Discovery	• Addressed an issue with IBM AIX servers not getting discovered. • Resolved issues with Apache Web Server and Apache Tomcat Server discovery. • Fixed an issue where the progress indicator for AWS and Azure imports was not visible. • Addressed an issue related to an MS SQL Server query scan. • Fixed an issue where AWS import for EC2 instances displayed empty fields. • Scan Total Time has been corrected when exporting a recent scan.

	• Fixed discovery monitoring properties. • Fixed a bug where the Location field on the Schedule Scan List page would always show an empty value. • Fixed an issue where MS SQL discovery was failing in some rare cases. • Fixed an issue that failed to fetch a process name for Linux processes. • Fixed an issue that failed to fetch a serial number for Linux hosts. • Addressed an issue in schedule scan bulk update. • Resolved an issue that prevented tags from being associated with imported assets on edit.
CMDB	• Fixed an issue related to exporting Software License Keys. • Fixed an issue where the blueprints' icons weren't updating when you clicked the update icon on the Blueprint page. • Addressed an issue with filters for the time zone property under CMDB Maintenance. • Resolved a problem with deleting properties in the CMDB. • Resolved an issue with the CMDB property group order. • Addressed an issue that allowed users to add duplicate property groups. • Addressed an issue in Merge CI that caused duplicate CIs.
Integrations	• Addressed an issue with operators inside mapping conditions. • Addressed filter-related issues in sync logs and mapping pages. • Fixed a problem where, despite failing, a CI was displayed in both the Success and Failed sections.
Admin	• Addressed an issue where notification was not sent on add/edit/delete locations records. • Fixed issues related to business rule condition check. • Fixed an issue that allowed users to select invalid operators for Integer and Date fields inside business rules.
Reports	• Fixed an issue related to CI relationship queries. • Fixed an issue in Custom Reports that showed duplicate values for certain queries.
General	• Fixed an issue related to page auto-refresh functionality. • Resolved a problem that prevented the application from showing recently added records at the top.

11 Neurons Service Mapping - Release Notes v2023.3 (July 2023)

Note: You're advised to clear or delete your browser cache before using Ivanti Neurons for Service Mapping post-release.

11.1 What's new

New features include expanded discovery and relationship mapping for MySQL and Apache servers, enhanced SSL certificate discovery, and several integration improvements for Ivanti Neurons for ITSM and Cherwell Service Manager.

Service Mapping	New feature or enhancement
Discovery	• Added support to import Meraki devices from Meraki Dashboard. • Added support for scheduled import for Meraki. • Optimized agent module add/delete/search features inside the Discovery Client page. • Added support to discover MySQL and Apache servers. • Added support for bulk update/uninstall agents inside the Discovery Client page. • Added import metrics for Azure user import.
CMDB	• Added feature to manage blueprint custom properties and property groups. • Added Region filter inside Business Service Map. • Added support to generate extended relationships between AWS CIs. • Added a newly enhanced API for CI retrieval. • Extended support for SSL certificate notification. • Added support to generate relationships between MySQL and Apache servers. • Enhanced and optimized default CMDB Summary report for dashboards.
Integrations	• Optimized Ivanti Neurons for ITSM and Cherwell Service Manager sync functionalities for better performance. • Added column customization for Ivanti Neurons for ITSM and Cherwell Service Manager Sync Log pages. • Removed Virima Asset ID property dependency to retrieve Changes and Incidents from Ivanti Neurons for ITSM. • Added sync log default rotation feature that only retains logs from the past 6 months. • Added support to re-sync a particular property's pick-list values from Ivanti Neurons for ITSM inside the Virima to ITSM Mapping page. • Added feature that restricts performing a sync when the metadata sync is still in progress.

Admin	• Added support for runbook inside business rules and graphical workflow. • Added oAuth support inside SMTP, Mailbox, and Inbox configurations. • Enhanced and optimized Hardware, Contract, and Vendor management features. • In Department, Location, Roles, and User Group & User Modules, 'Last Modified On,' 'Created By User,' and 'Last Modified By User' are added to the records.
Users	• Added service-provider-initiated login for SSO users. • Added support to handle multiple SAML configurations and their association with users.

11.2 Fixes

These fixes automatically display upon upgrade and do not disrupt daily use for existing customers.

Fix	**Description**
Discovery	• Fixed a problem where the import schedule scan might fail when a file with special characters was imported. • Resolved a rare case issue where SSL certificates on hosts weren't discovered. • Added a relevant icon to the database blueprint. • Addressed an issue that allowed users to add duplicate schedules for a Windows Discovery Agent. • Addressed a problem when a Windows Discovery Agent was archived or deleted, the associated schedule scan was not deleted. • Addressed a filter issue in the Discovered Items List page. • Addressed a sort/filter issue in the Windows Discovery Agent tab on the Discovery App (Client) page. • Addressed an issue where software instance discovery was failing via a Windows Agent scan. • Addressed an issue where 'Major Software Name' was not auto-filled when adding major software from installed software or a software instance.
CMDB	• Fixed an issue related to exporting software license keys. • Addressed an issue where Basic export was not exporting all columns shown on the list page. • Addressed an issue inside 'Change Attributes' that showed a text field instead of a date picker for date properties. • 'Last Scanned on' property is now included in the list page column customization. • Addressed an issue that prevented users from filtering/sorting the Boolean type properties in the list page.

Integrations	• Addressed an issue related to peripheral device mapping in Ivanti Neurons for ITSM. • Addressed an issue where the page went unresponsive while adding Ivanti Neurons for ITSM credentials. • Addressed an issue where Ivanti Neurons for ITSM Business Object IDs were not matching upon resetting the mapping. • Addressed a few minor user-interface-related issues on the Ivanti Neurons for ITSM and Cherwell Service Manager Mapping pages. • Addressed an issue where duplicate records were shown under the Ivanti Neurons for ITSM and Cherwell Incident & Changes tab inside an ITSM CI record.
Admin	• Resolved a problem where the business rules were not updating the contracts with the hardware asset that the contract was created from.
Reports	• Fixed a report exporting issue where the capitalization of values was not retained in the exported file. • Addressed user-interface-related issues. • Addressed an issue that prevented a report from rendering all records matching the conditions when the response had a NULL value.
Users	• Addressed an issue related to user bulk edit. • Addressed issues with imported users.

12 Neurons Service Mapping - Release Notes v2023.1 (January 2023)

Note: You're advised to clear or delete your browser cache before using Ivanti Neurons for Service Mapping post-release.

12.1 What's new

These new features automatically display upon upgrade; they're usually smaller enhancements that do not disrupt daily use for existing customers.

Feature	Description
ITSM/CSM sync optimization	Optimized Ivanti Neurons for ITSM and Cherwell Service Manager (CSM) integration for faster sync performance with the Service Mapping CMDB.
Windows Discovery Agent schedule management	Added ability to manage Windows Discovery Agent schedule jobs from the Discovery App client.
New agentless discovery credentials	Added support for SNMPv3, AES192, and AES256 encryption-type credentials to be used with Service Mapping discovery.
Window Discovery Agent bulk add and delete improvements	Optimized bulk add and delete features for scheduling discovery agent scans.
Status and approval bulk updates	Added support for Status and Approval Status fields to be bulk updated within the Service Mapping CMDB.
Default CI editing	Edits to Service Mapping CIs no longer require the user to enable CI editing first.
CI status updates	CI status in the Service Mapping CMDB can be changed to any state without requiring a sub-state change.
User management	Added support for bulk user edits and updates.
Mailbox improvements	Added mailbox support for Microsoft oAuth and SMTP configuration.
Business rules and reports "within next"	Added support for "within next" operator inside business rules and reports.

These new features are immediately available to all customers but must be specifically configured.

Feature	Description
ITSM relationship and component deletion (BETA)	Added back-end ability to delete relationships and components from the ITSM CMDB that are no longer discovered by Service Mapping discovery (BETA).
Discovered Items “Last Scanned On” property	Discovered Items view now includes a Last Scanned On date showing when the asset was last scanned. Users must configure their personal Discovered Items view to display the date.
CI record “Last Scanned On” property	CI records can now include a Last Scanned On date showing when the asset was last scanned by Service Mapping discovery. System admins must configure which blueprints show the Last Scanned On property.

12.2 Fixes

These fixes automatically display upon upgrade and do not disrupt daily use for existing customers.

Fix	Description
Service Mapping CMDB	• Fixed an issue that was preventing the Process Network Connections job from running. • Addressed an issue with stop sync for ITSM and CSM. • Addressed an issue where a few relationships were not showing up in the Relationship tab for a CI. • Addressed an issue where the CI location was not getting updated on move. • Addressed an issue where the recycle date was not calculated when a CI was moved.
ITSM integration	• Addressed an issue where relationship copy was failing. • Addressed an issue where some picklist properties were not retrieved in the Mapping page.
Discovery	• Addressed an issue where some random discovery scan records threw errors while opening them. • Addressed an issue where the scheduled jobs were not getting updated/deleted in some Windows Discovery Agents. • Addressed pagination issue in Windows Agent’s Tabular page.

	• Removed ‘sudo’ checkbox in the Credentials page inside the Discovery app and webapp, as this is handled inside probes. • Addressed an issue where the restart client function in the Discovery Client page was failing for some clients. • Addressed an issue where a few Windows Agents failed to run the scheduled scans when the scan was scheduled for multiple agents. • Addressed an issue where the Windows Agent sometimes was not returning IIS website, application, and Hyper-V details. • Addressed an issue where the SNMP scan failed to retrieve the serial number for some network device types.
Ad-hoc reports	• Fixed IN and NOT IN operator's functionality issue inside reporting module. • Fixed OR operator functionality issue inside reporting module. • Addressed an issue where some records were not pulled into the report query due to null values. • Addressed an issue that failed to generate the report when more than one WITHIN or NOT WITHIN operator was used in multiple query blocks.
Azure import	• Addressed an issue where the Virtual Machine’s name was not retrieved for some of the Azure Virtual Machines.
User admin	• Addressed an issue that was always updating the existing user’s Active flag to true while importing from Active Directory. • Addressed issues related to user group functions for sort and filter.
Business rules	• Fixed inside rule Actions, Hardware Asset, and License key search issue. • Fixed update triggered record action issue inside.
General	• Addressed an issue related to uploading attachments throughout the application.