

# Avantra 24.0

**Revolutionizing SAP operations**  
*A new era of efficiency*



# Avantra 24 at a glance



## Add ins library

Easy discovery and 1-click install and upgrade for our latest workflow templates



## Automation templates

SAP Notes, HANA upgrades, client copy, certificate update, SAP host agent, Red Hat AAP integration



## Integration for source code management

Enterprise ready management of your own code via GIT



## Automation engine

Massive scalability and improved usability



## User interface

- New look and feel
- Improved usability

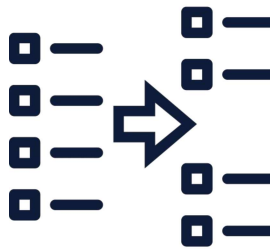


## Platform updates

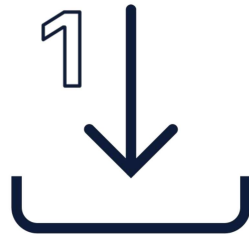
Java 17  
GraphQL API publicly released

# Add ins library

Single click access to the latest innovations



Easy discover our increasing list of automation workflow templates



Single click to download and install



Content protected through digital signatures



Easily see when updates are available



No prerequisites, expect access to [api.avantra.com](https://api.avantra.com) (proxy is supported)

# Add ins library example



## Administration

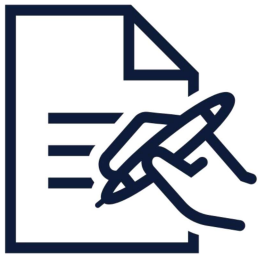
- Customers
- User Management
- Settings
- Routes
- Logbook
- Licenses
- Synchronizations
- Add-ins Library
- Repositories
- Namespaces
- Agent Updates

- No login required
- Eligible customers are logged on with their license

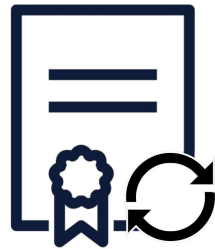
Add-ins Library							
<input type="checkbox"/> Open Add-in Infos <input type="checkbox"/> Install Add-in <input type="checkbox"/> Uninstall Add-in <input type="checkbox"/> Check for updates							
Add-in name	Add-in ID	Type	Min Avant...	Latest Add-in ...	Installed version	Description	
✓ Avantra Global Modules	avantra-core	globalmodules	23.3.0	1.0.0	1.0.0	Avantra global object...	
✓ Debian based OS Patching	os-patching-apt-get	automation	21.11.0	1.0.0	1.0.0	OS Patching - apt-get	
✓ Windows Update	os-windows-update	automation	24.0.0	1.0.0	1.0.0	OS Patching - Windo...	
✓ HANA Backup/Restore	hdb-backuprestore	automation	23.3.0	1.0.0	1.0.0	Backup / Restore of	
✓ HANA Update	hdb-patch	automation	24.0.0	1.0.0	1.0.0	Update of Hana Syst...	
✓ Oracle Backup/Restore	ora-backuprestore	automation	23.3.0	1.0.0	1.0.0	Backup / Restore of	
✓ Sybase ASE Restore	ase-backuprestore	automation	23.3.0	1.0.0	1.0.0	SAP System ASE dat...	
✓ Transport(s) Import	sap-transports	automation	23.3.0	1.0.0	1.0.0	Import external Tran...	
✓ SPAM/Plugins Patch	sap-patch	automation	23.3.0	1.0.0	1.0.0	SPAM/Plugins Patch...	
✓ SAP Client Administration (SCC4)	sap-basis-scc4	automation	23.3.0	1.0.0	1.0.0	SAP Client Administr...	
✓ System Change Option Global Setting Update	sap-basis-se06	automation	23.3.0	1.0.0	1.0.0	Global System Chang...	
✓ SAP Jobs Administration	sap-jobs	automation	23.3.0	1.0.0	1.0.0	SAP Jobs Administra...	
SAP User Management	sap-users	automation	23.3.0	1.0.0	- not installed -	SAP Users maintenanc...	
✓ SAP System Refresh	sap-systemrefresh	automation	23.2.0	2.0.8	2.0.8	Perform a full ABAP...	
✓ SAP ABAP Corrections Implementation	sap-notes	automation	24.0.0	1.0.0	1.0.0	Implements digitaliz...	
Red Hat Automation Platform Integration	rh-am-int	automation	24.0.0	1.0.0	- not installed -	Red Hat Automatio...	
SAP System Copy using Red Hat Automation Platform Integration for Ansible	rh-am-int	automation	24.0.0	1.0.0	- not installed -	SAP System Copy us...	
✓ SAP Profile Parameters	sap-basis-profileparams	automation	24.0.0	1.0.0	1.0.0	SAP Profiles Paramet...	
✓ SAP HostAgent update	sap-hostagent	automation	24.0.0	1.0.0	1.0.0	SAP HostAgent	
✓ SAP Certificates renewal	sap-certificates	automation	24.0.0	1.0.0	1.0.0	Certificates renewa...	

# New automation workflow templates

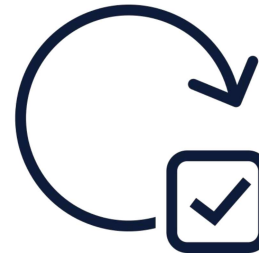
At a glance



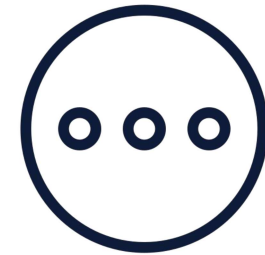
**Apply SAP digital signed notes** (ie. ABAP corrections such as provided in SAP HotNews and security notes etc.)



**Renew SSL certificates** for ABAP servers (ECC and S/4HANA) and web dispatchers



- Update of SAP HANA database
- Patching of SAP Host Agent
- Simple Windows update procedure

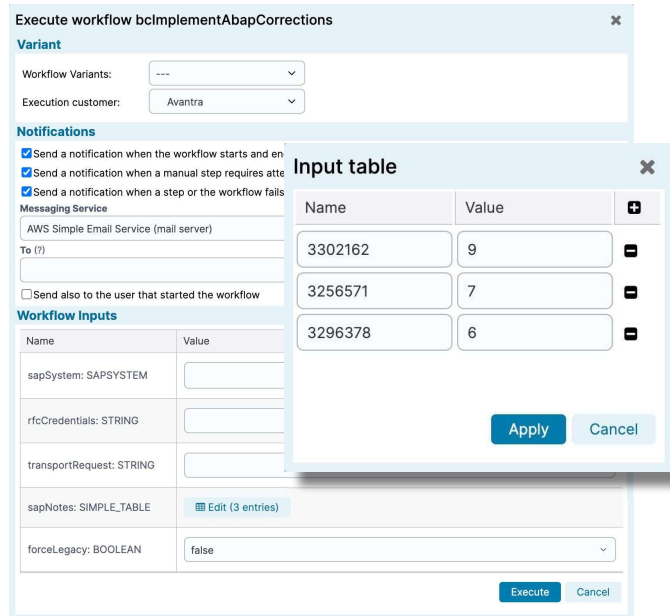


Other:  
Enhanced “Apply SAP profile parameters” workflow

# New automation: SAP Notes

Apply SAP digital signed notes per automation

Implement several notes in one step for multiple systems



**Execute workflow bcImplementAbapCorrections**

**Variant**

Workflow Variants: ---

Execution customer: Avantra

**Notifications**

- Send a notification when the workflow starts and ends
- Send a notification when a manual step requires attention
- Send a notification when a step or the workflow fails

**Messaging Service**

AWS Simple Email Service (mail server)

To (?):

Send also to the user that started the workflow

**Workflow Inputs**

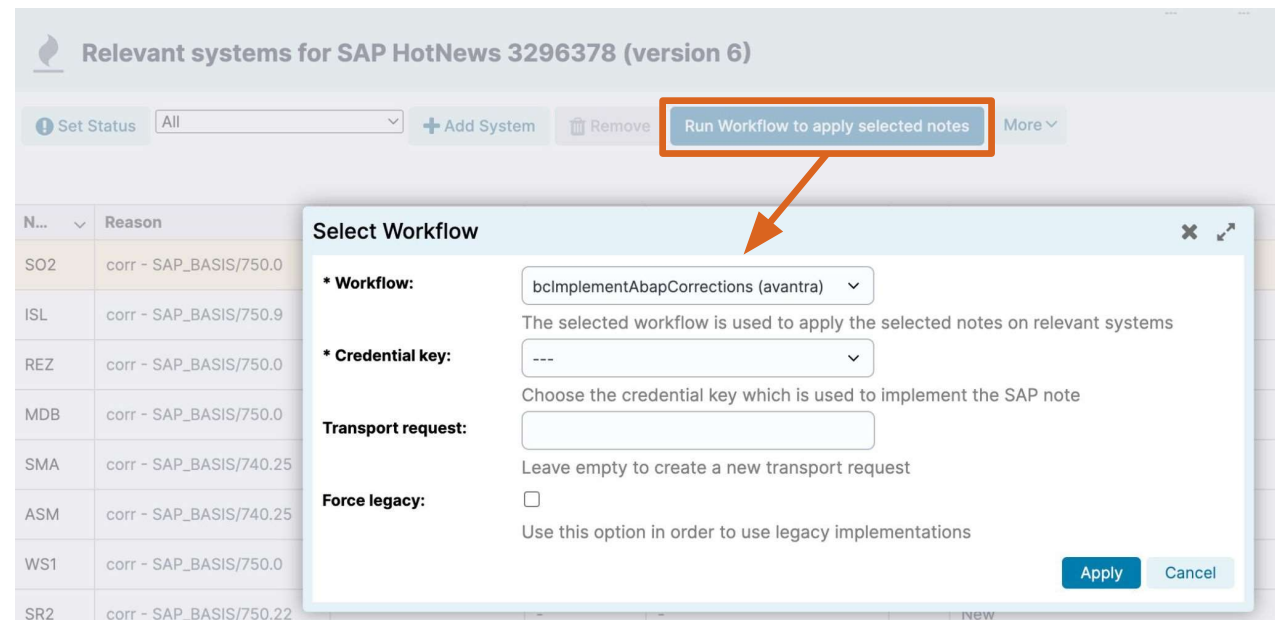
Name	Value
sapSystem: SAPSYSTEM	
rfcCredentials: STRING	
transportRequest: STRING	
sapNotes: SIMPLE_TABLE	<a href="#">Edit (3 entries)</a>
forceLegacy: BOOLEAN	false

**Input table**

Name	Value
3302162	9
3256571	7
3296378	6

Buttons: Apply, Cancel, Execute, Cancel

Implement HotNews and security notes individually directly from the Avantra HotNews view



**Relevant systems for SAP HotNews 3296378 (version 6)**

Buttons: Set Status, All, Add System, Remove, Run Workflow to apply selected notes, More

N...	Reason
SO2	corr - SAP_BASIS/750.0
ISL	corr - SAP_BASIS/750.9
REZ	corr - SAP_BASIS/750.0
MDB	corr - SAP_BASIS/750.0
SMA	corr - SAP_BASIS/740.25
ASM	corr - SAP_BASIS/740.25
WS1	corr - SAP_BASIS/750.0
SR2	corr - SAP_BASIS/750.22

**Select Workflow**

\* Workflow: bcImplementAbapCorrections (avantra)

The selected workflow is used to apply the selected notes on relevant systems

\* Credential key: ---

Choose the credential key which is used to implement the SAP note

Transport request:

Leave empty to create a new transport request

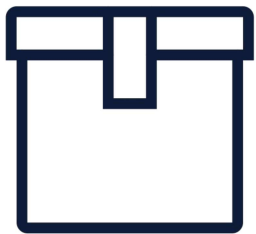
Force legacy:

Use this option in order to use legacy implementations

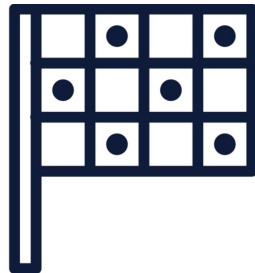
Buttons: Apply, Cancel

# New automation: SSL certificate update

Prevent your business from common reason for downtime



4 different use cases:  
end-to-end and  
semi-automatic for  
ABAP servers and the  
Web Dispatcher



End-to-end solutions  
combine observability  
of SSL certificates  
checks with  
automation



Integration into  
customer certificate  
authority required



Semi-automatic  
process designed to  
work without access  
to the SAP system



Please read our extensive documentation about our certificate update workflows in our [support area](#).

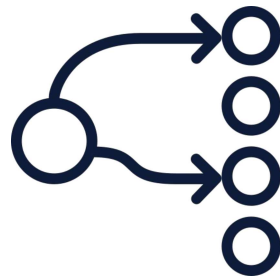
# Integration of source code management



Have your automation workflows under enterprise ready change control



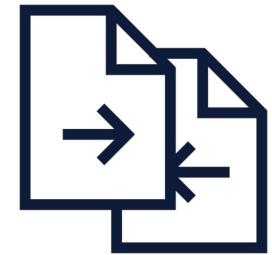
Major GIT based systems supported, such as Github or Bitbucket



Connect to multiple repositories for different purposes or to support multi-tenancy



Work with your favorite IDE and pull changes to Avantra, or keep working in Avantra and push the changes



Use integrated diff tool to see changes prior to commit



# Integration of source code management



Example screenshot 1

## Repository: Sandbox

[Configure repository](#) [Test](#) [Status](#) [Clone](#) [Sync](#) [Open repository log](#)

**Repository Sandbox is cloned to your Avantra server.**

- Press **Commit/Push** action below to commit (and optionally push) latest local changes to the remote repository
- Press **Push** action below to push local commits to the remote repository
- Press **Pull** action below to pull latest changes from remote repository to your local Avantra
- Press **Status** action above to verify if your local Avantra objects are in sync with remote objects

Repository folder location on Avantra server: /opt/syslink/.xandria/repos/2

### Repository Configuration

Name: Sandbox (ID: 2)  
URL: https://bitbucket.org/syslink-software/sandbox.git  
Credentials: [redacted] /\*\*\*\*\*  
Branch: <default>

**Pending changes**

[Commit/Push](#)

Type	Repository file
ADD	steps/sandbox/beeOpenSSLVersionStep.json
ADD	workflows/sandbox/beeGetOpenSSLVersionLoopServersWF.json

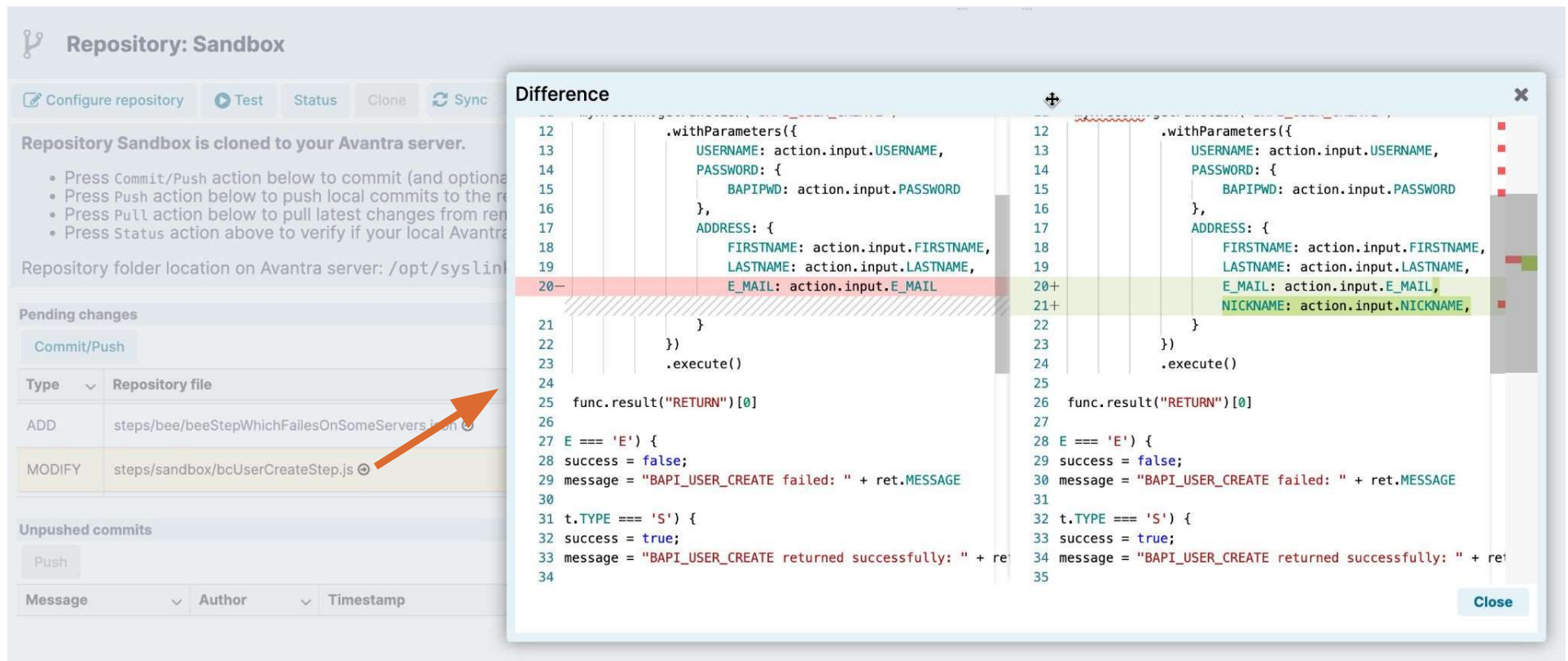
**Unpushed commits**

[Push](#)

Message	Author	Timestamp	Repository file(s)
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# Integration of source code management

Example screenshot 2



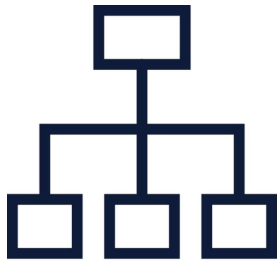
The screenshot displays the Avantara interface for a repository named "Sandbox". The interface includes a header with "Repository: Sandbox" and several action buttons: "Configure repository", "Test", "Status", "Clone", and "Sync". Below the header, a message states "Repository Sandbox is cloned to your Avantara server." followed by instructions for committing, pushing, pulling, and verifying changes. A table lists pending changes, with one modification highlighted: "steps/sandbox/bcUserCreateStep.js". An orange arrow points from this entry to a "Difference" window.

The "Difference" window compares two versions of a code block. The left side shows the original code, and the right side shows the modified code. The changes are highlighted with a red background for the removed line and a green background for the added line.

```
12 .withParameters({
13   USERNAME: action.input.USERNAME,
14   PASSWORD: {
15     BAPIPWD: action.input.PASSWORD
16   },
17   ADDRESS: {
18     FIRSTNAME: action.input.FIRSTNAME,
19     LASTNAME: action.input.LASTNAME,
20-    E_MAIL: action.input.E_MAIL
21+    E_MAIL: action.input.E_MAIL,
21+    NICKNAME: action.input.NICKNAME,
22   }
23 })
24 .execute()
25
26 func.result("RETURN")[0]
27
28 E === 'E' {
29   success = false;
30   message = "BAPI_USER_CREATE failed: " + ret.MESSAGE
31 }
32 t.TYPE === 'S' {
33   success = true;
34   message = "BAPI_USER_CREATE returned successfully: " + ret.MESSAGE
35 }
```

# Automation engine

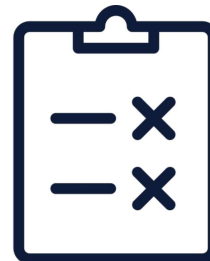
Significant improvements on performance and usability



Engine is now able to perform thousands of parallel executions



Usability improvements help to keep control of workflow executions when working with many (thousands) of systems



Easily follow up with failed executions



Read from or write into JSON structure and loop over for messaging etc. after parallel executions have finished

# Automation engine

Example screenshot of parallel execution on 3k servers

**Workflow execution #29**

**Steps** | Execution Logs

Workflow name: **Looper\_for\_mass\_execution** Customer: **Root** Variant: **-**  
 Start time: 2023-11-21 15:30:56 (4m 30s ago) Duration:  
 End time: Total amount of workflow steps by status: Finished(2122), Error(21), Running(473)

[Stop execution](#) [Change variables](#) Filter by step status:

Step	Start time	Duration	Status	Action
▼ avantra.Looper_for_mass_execution (0/1) (running)	2023-11-21 15:30:56			
▼ Parallel loop looper_step (2140/2623) (running)	2023-11-21 15:30:56			Looping through 3000 systems.
▶ --- Running (483) ---				
▶ --- Finished (2119) ---				
▶ --- Error (21) ---				

Grouping by status of looping workflow

Follow up with failed systems

▶ --- Finished (2970) --- →

▼ --- Error (30) --- →

- ▶ looper\_step (1/1) (finished)
- ▶ looper\_step (1/1) (finished)
- ▶ looper\_step (1/1) (finished)

**Set system selector name**

\* Name: avantra.Looper\_for\_mass\_execution-ERROR-#29

Description: ERROR system(s) of execution #29  
Started on 2023-11-21 15:30:56

[Create](#) [Cancel](#)

# Updated user interface



Improved usability and much more appealing look

Monitoring

- RTM Overview
- RTM Checks List
- RTM Control Center
- Daily Checks
- Dashboards (new)**
- Dashboards (legacy)
- Business Services
- Dashboard Overview
- More

COM\_PRD System Landscape

New implementation of dashboards in our next generation UI

Visual update for the classic UI  
Including new “Welcome” page

# Significant number of minor improvements



We listen to our customers



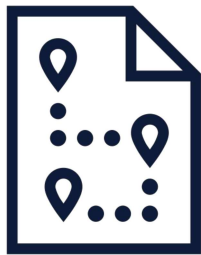
- New way of disabling checks and mute check notifications for a set time and keep track of the same
- Customer specific monitoring parameter sets
- Enhanced ServiceNow integration
- Permissions more granular for more tailored user roles
- New ad-hoc credential input for workflows
- Avantra Agent silent install options for Windows
- RUN\_JS support for ASCS type instances
- Start/Stop of non-cloud servers via custom workflows

# Platform updates

Modernise the platform and keep libraries secure



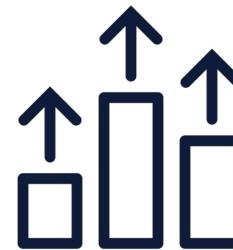
Move to **Java 17 LTS** for both, the Avantra Server and the Agents



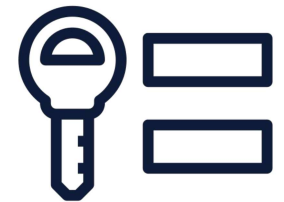
Simple and save upgrade path — no big bang Agent update.  
[See our solution document](#)



GraphQL API is now publicly released with documentation and examples available



Big Avantra installations benefit by performance improvements throughout the codebase



Individual encryption master key for even better protection of credentials and other sensitive fields

Many 3rd party library updates including SAP JAVA Connector (JCo) upgrade to 3.1.8

# Learn more about Avantara 24



[What's new blog](#)



[Release Notes](#)

