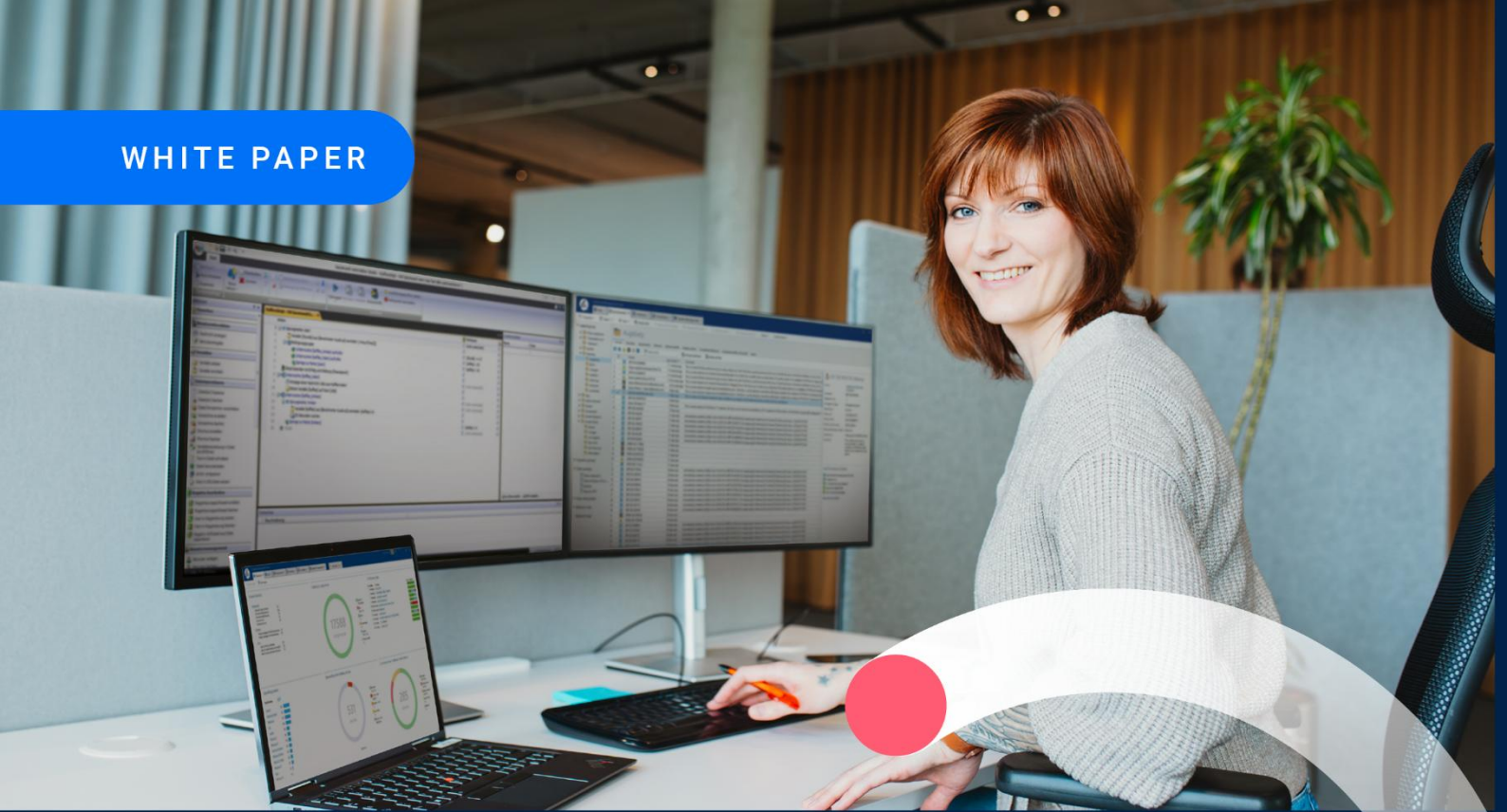


WHITE PAPER



baramundi Connect

Interfaces of the baramundi Management Suite

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Statements regarding features and technical functionalities are non-binding and provided for informational purposes only. Subject to change.

1 Interoperability

The baramundi Management Suite can be integrated into existing IT environments via defined interfaces to exchange data and processes across systems. Thanks to standardized interfaces, baramundi helps companies efficiently connect existing tools, platforms, and automation processes.

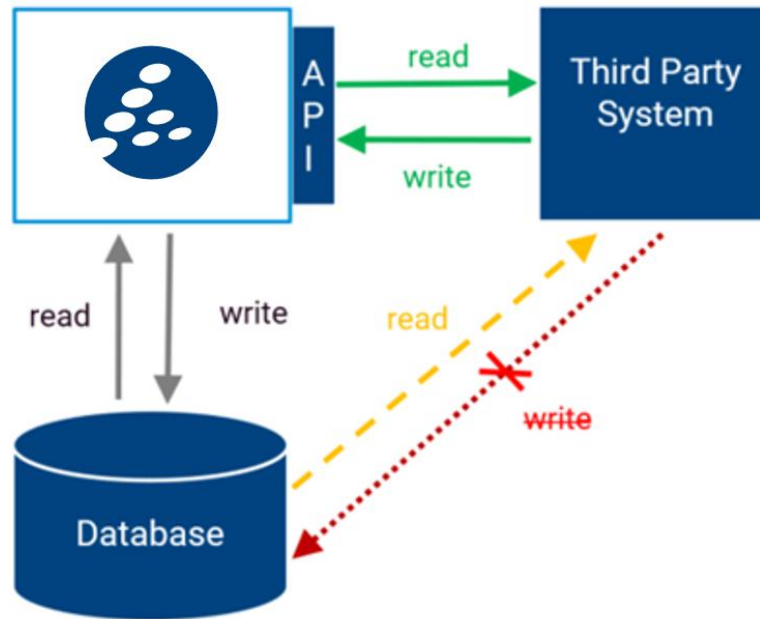
1.1 Typical Scenarios

As a Configuration Management Database (CMDB), the baramundi Management Suite stores detailed and up-to-date information about the IT environment, which is collected automatically—for example, through inventorying—or supplemented via the Management Center. This data supports other enterprise applications, such as ITSM, help desk, asset, or license management systems, in their business processes.

In addition, third-party systems can automatically trigger management tasks via the interface. For example, service desk processes, compliance checks, software deployments, or other recurring workflows can be directly linked to the functions of the baramundi Management Suite.

1.2 Interfaces

Third-party systems have various options for accessing data from the baramundi Management Suite or triggering actions. In general, baramundi recommends using the documented and versioned application programming interfaces (APIs). Based on the bConnect API, additional integrations are available for workflow automation, PowerShell scripting, and AI applications.



Read and Write Access

1.3 Interface Technologies

For integrating third-party systems, a primary interface and various secondary interface and automation options are available.

The primary recommended method is to use the baramundi Connect API (bConnect), which is continuously being expanded.

Secondary interfaces build on the functionality of the primary bConnect interface and adapt it for different target platforms and user groups.

2 bConnect HTTPS/REST

Status: Recommended

bConnect is the central and recommended programming interface of the baramundi Management Suite for integrations, automations, and system connections. As a REST-based interface, it enables secure access via HTTPS to numerous objects and functions of the Management Suite.

Through bConnect, organizations can, among other things, retrieve inventory, compliance, software, and asset data, as well as trigger automated actions and management jobs. The continuous expansion of the API ensures that new features of the Management Suite are gradually made available for integrations as well.

In addition, information about managed devices, dynamic groups, BitLocker, and other Management Suite objects can be integrated into external processes and applications.

Communication is encrypted via HTTPS. The available functions and data depend on the permissions configured for the respective user or API access in the baramundi Management Suite.

bConnect supports the following methods:

GET	POST	PATCH	DELETE
Read	Create/Trigger	Modify	Remove
Queries lists and individual objects. The data is not modified.	Create new objects or initiate supported actions and processes	Updating existing objects and properties.	Deleting supported objects

The interface validates the transmitted data and ensures the consistency of the processed information.

JSON and XML are supported as data formats. The use of JSON is recommended for integrating modern applications, cloud services, and automation platforms

3 Secondary Interfaces

Based on bConnect, various options for automation and integration are available. In addition to directly using the REST API, companies can integrate the baramundi Management Suite into workflow, automation, and AI environments.

3.1 PowerShell

Status: Recommended

A PowerShell module for bConnect V2 is available for script-based automation. It provides REST API functions in the form of PowerShell cmdlets and simplifies the use of the baramundi Connect API for recurring administration and automation tasks.

Source: <https://www.powershellgallery.com/packages/bConnectV2>

3.2 Low-Code Automation Platform n8n

Status: Technical Preview

A connector for the n8n workflow platform is available for automation scenarios. The n8n connector, based on the bConnect API, enables the integration of functions and information from the baramundi Management Suite into visual low-code or no-code workflows and supports the automation of recurring processes.

Source: <https://github.com/baramundisoftware/bConnect-MCP>

3.3 Model Context Protocol (MCP) for AI

Status: Technical Preview

The baramundi MCP Server provides selected features of the baramundi Management Suite via the open Model Context Protocol (MCP) for AI applications and large language models. This allows information and features from the Management Suite to be integrated in a standardized way into AI-powered automation and assistance scenarios.

Source: <https://github.com/baramundisoftware/n8n-bConnect-connector>

4 Database Access

Status: Not Recommended

Direct access to database tables is possible but not recommended, as table structures may change between releases. For long-term compatible integrations, the documented API should therefore always be used.

In justified cases, read-only access to database tables is permitted. Compatibility must be verified, particularly after release changes.

Direct write access to database tables is not permitted, as database consistency cannot otherwise be guaranteed. Therefore, only API calls should be used for write operations.

5 Typical Functions

The following list shows examples of frequently used API function calls (this list is not exhaustive).

- Retrieving the list of all managed devices
- Querying hardware and inventory data
- Querying existing jobs
- Retrieving job instances
- Assigning jobs to devices
- Querying software detection rules
- Querying detected software on managed devices
- Providing compliance information to third-party systems
- Integration of asset and inventory data into cross-functional processes
- Using information about BitLocker, dynamic groups, and other managed objects
- Querying the API version
- Additional functions as described in the current API documentation

6 Summary and Outlook

With bConnect, the baramundi Management Suite offers an open, documented, and continuously evolving interface for securely integrating IT data and management functions into existing system landscapes. Companies benefit from standardized, versioned APIs that support both traditional ITSM and asset management integrations as well as modern automation and AI-driven scenarios.

Through the continuous development of bConnect, baramundi is constantly expanding the possibilities for integration and automation. In addition to traditional system integrations, connections are available for the n8n workflow platform, an MCP server for AI-based applications, and a PowerShell module for script-driven automation, among others. This enables companies to flexibly integrate the baramundi Management Suite into existing processes, platforms, and automation solutions.

Further information on the individual API functions, supported methods, and current enhancements can be found in the latest bConnect API documentation.

Get in Touch!

We are looking forward to meeting you!



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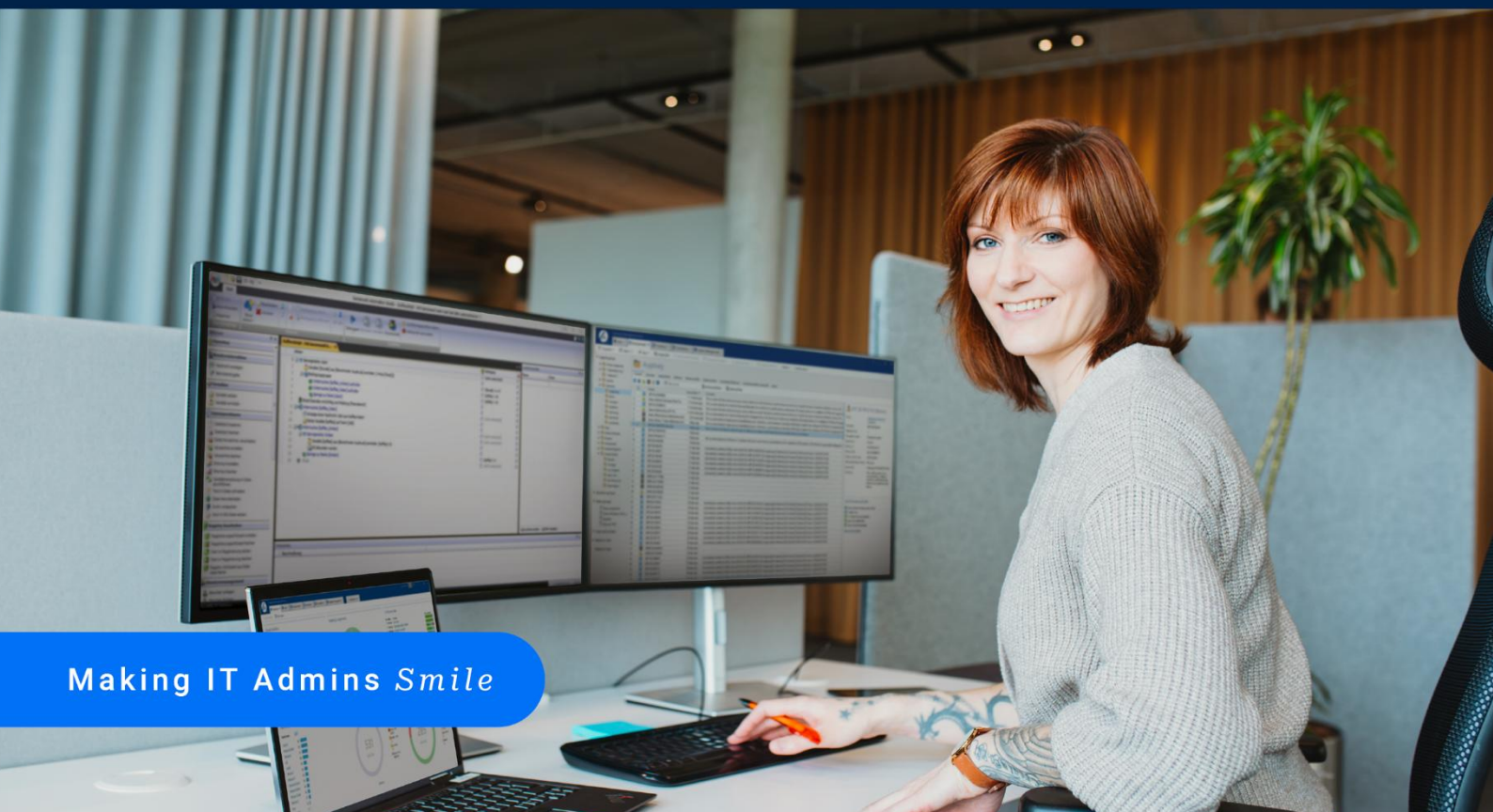
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