Tools & Components

IDABUS NAME GENERATION SERVICE (NGS)
Company-wide or system-specific name generation

For the successful operation of an identity management system, the generation, storage and provision of unique names are essential.

The Name Generation Service (NGS) is a release-ready tool that meets these requirements comprehensively and with high performance. Only modern Microsoft technologies and components were used in the development.

The NGS is a web service that provides a REST-compliant interface for all required functions. Therefore, a call from other applications can be performed very easily. To enable easy use of the NGS also from PowerShell scripts, a special module with common functions was created. A collection of example scripts for all common use cases facilitates the introduction. Finally, each function can also be called manually via an integrated interface description page.
The generated unique names are stored in a Microsoft SQL server database. An existing SQL server (e.g. FIM/MIM DB) can be used for this purpose. The requirements are minimal.

The NGS is multi-client capable and provides unique names for clients, infrastructures, parts of infrastructures, systems, subsystems, or combinations of these as required. Prepared functions for generating, providing, and storing unique names based on templates already cover a variety of possible and complex generation scenarios for unique names. Names that are no longer used can be deleted automatically after an individually configurable retention period has expired and are then available again on request. Predefined PowerShell scripts enable the NGS functions to be called directly from MIM workflows, e.g. to generate unique login names or e-mail addresses.

NGS includes the following functionalities

- Generation of unique identifiers (UID)
- Generation of unique names based on templates
- Generation of unique names based on complex rules
- Storage of unique names in the context of the UID
- Time-controlled or delayed deletion of records
- Black list function to prevent generation of inappropriate or offensive names. Can be edited via API

The NGS includes the following components

- Central REST-based web service for providing, generating, and storing unique names based on templates
- PowerShell module for simplified calls from scripts
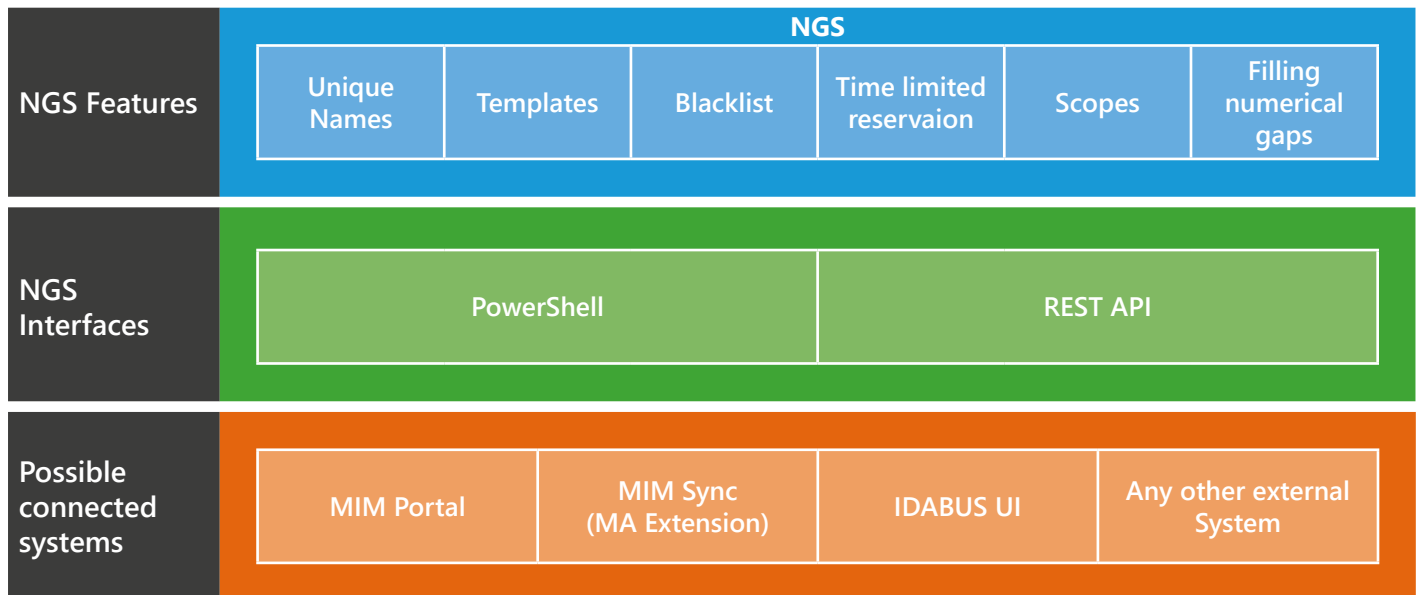- Sample scripts and templates for calls from MIM workflows

The generation, storage and provision of unique names is essential for the successful operation of an identity management system.

The Name Generation Service (NGS) is a releasable tool that fulfils this requirement comprehensively and with high performance. Only proven Microsoft technologies and components were used in the development.

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Architecture of the IDABUS Name Generation Service (NGS)

	NGS					
NGS Features	Unique Names	Templates	Blacklist	Time limited reservaion	Scopes	Filling numerical gaps
NGS Interfaces	PowerShell			REST API		
Possible connected systems	MIM Portal	MIM Sync (MA Extension)		IDABUS UI	Any other external System	

The NGS includes the following components

- Creation, modification and deletion of Unique Names
    - REST API
    - PowerShell-Module

- Use of templates to generate the UniqueNames
    - Generation of random letter combinations
    - Generation of random number combinations
    - Generation based on attributes