

Access Rights Management. Only much Smarter.

Access Rights Management

Release Notes

Version 8.0

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1 Innovations according to product groups

8.0	8MAN Visor	8MAN Visor DO	8MAN Enterprise
Comprehensive changes		·	
New colors for better contrast and visibility for all UIs	\checkmark	\checkmark	\checkmark
Permission Analysis			
Risk Assessment Dashboard - central overview of risks	8MATE Analyze & Act	8MATE Analyze & Act	8MATE Analyze & Act
Documentation & Reporting			
8MATE Analyze & Act: new scenarios and flexible reports	8MATE Analyze & Act	8MATE Analyze & Act	8MATE Analyze & Act
Security Monitoring			
Scheduling and filtering FS Logga reports	8MATE FS Logga	8MATE FS Logga	8MATE FS Logga
8MATE FS Logga supports SSL for NetApp C-Mode	8MATE FS Logga	8MATE FS Logga	8MATE FS Logga
Role & Process Optimization			
Assigning resource owners using the web client, importing and exporting the configuration	×	×	8MATE GrantMA
Requesting directories using the self service portal	×	×	8MATE GrantMA
Single Sign On to the self service portal	x	×	8MATE GrantMA

Access Rights Management

8.0	8MAN Visor	8MAN Visor DO	8MAN Enterprise
User Provisioning			
8MATE Analyze & Act: <u>new bulk operations</u>	×	×	8MATE Analyze & Act
Executing scripts before and after changes	×	×	\checkmark
Ressource Integration			
8MATE Sharepoint: executing changes in SharePoint 2016 & Online	8MATE SharePoint	8MATE SharePoint	8MATE SharePoint
Easy Connect: <u>Importing access</u> rights from additional resources	\checkmark	\checkmark	\checkmark
8MAN Konfiguration			
New homepage layout and search	✓	\checkmark	\checkmark
Configuring scripts	×	×	\checkmark
Configuring the SharePoint Remote Connector	8MATE SharePoint	8MATE SharePoint	8MATE SharePoint



2 Permission Analysis

2.1 Risk Assessment Dashboard - central overview of risks

Background / Value

Incorrect permissions and settings cause security risks. The new risk assessment dashboard visualizes the top risk factors with the highest impact on security. Start with an overall rating. Create a risk assessment report with one click. Drill down into deeper analyzes with one more click.

8MAN displays the following risk factors:

- inactive accounts
- groups in recursion
- accounts with never expiring passwords
- globally accessible directories
- directories with unresolved SIDs
- directories with direct permissions
- directories with differing access rights

Permission Analysis

Additional Services

You can start a lot of analyzes, reports and actions from the risk assessment dashboard. The following table faces the web client services to similar rich client services.

8MAN Visor Editionen

Rich Client

Report: inactive accounts identifying groups in recursion Report: identifying users with never expiring passwords Report: identifying direct permissions Report: identifying unresolved SIDs Report: everyone permissions

Report: authenticated users permissions

Web Client (Analyze & Act)

Identifying inactive accounts Identifying groups in recursion Identifying users with never expiring passwords Identifying globally accessible directories Identifying unresolved SIDs Identifying direct permissions Identifying directories with differing permissions

8MAN Enterprise

Rich Client

Resetting passwords Removing a user and his permissions Modifying users and groups attributes Unlocking an user Deactivating an user Changing password options of an user Modifying group memberships

Web Client (Analyze & Act)

Resetting passwords in bulk Changing password options in bulk Deactivating accounts in bulk Deleting accounts in bulk (soft delete) Removing group memberships in bulk Removing direct permissions in bulk Removing permissions from globally accessible directories in bulk Modifying attributes in bulk Removing unresolved SIDs in bulk Removing differing permissions in bulk Executing scripts on user accounts in bulk

Step by step process

8MAN Web	×					≛ - □ ×
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8MAN	A Home \mathfrak{O} Recertification	👻 🛄 Analyze	・ 🏽 Requesting - 😵	Workflows -	¢	은 demoadmin +
Õ I	Mailing for Approval	_	Risk Management		What would you like to do next?	
	waning to Appuvar	2	High Risk Le	vel	H Orders New New Au Application Recertification New Statistics	
			All AD user accounts	357 _C	Analyze • New Scenario & Remove	
			All AD group accounts	267 _S	<u>Directory permissions</u> <u>Group memberships</u>	

- 1. After login 8MAN shows the homepage.
- In the "Risk Management" area you see an overall risk level rating.
 The higher the number the higher the risk level.

Click the tile.

- 1. 8MAN shows an overall rating.
- 2. The print view offers an overview of all risk factors including explanations. Create a comprehensive risk assessment report with on click.
- 3. 8MAN shows all risk factors with related ratings.

MAN 🕈 Home	${\mathfrak S}$ Recertification	n 🗸 🔟 Analyze 🗸	및 Requesting -	🗞 Workflows -			🌣 🖌 🐣 demoadmin
Assessment Dashboard		_					
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Directori	es with unresolved SIDs		Directories with direct access	1 Details 2 Refresh	vith changed access rights		
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ore -	Minimize Risks	More -	Minimize Risks	More -	Minimize Risks		

- 1. Get more details and explanations of the risk factor.
- 2. Recalculate the risk factor. This may take some time.
- 3. Start the scenario.



2.1.1 Identifying inactive accounts using the web client

Background / Value

Inactive accounts can be used for data theft and manipulation without being detected. Since most inactive accounts are remnants of past employees, they are often a symptom of a communication problem between HR and IT. 8MAN displays all inactive accounts in Active Directory with a last logon older than 30 days. Remove or deactivate accounts that are no longer needed.

Additional Services

Report: inactive accounts Deactivating accounts in bulk (8MATE Analyze & Act and 8MAN Enterprise required)







- 1. After login you see the web client homepage.
- 2. 8MAN shows an overall rating in the area "Risk Management". The higher the number the higher the risk level. Click the tile.

- 1. 8MAN shows a rating for the risk factor "Inactive accounts".
- 2. Click "Minimize risks".

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Directorie	s with unresolved SIDs		Directories with direct access	Directo	ries with changed access rights		
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	8	Azubi, Andy (8man-demo\Andy Azubi)	3/7/2016	436	true			- 1	
	8	Pakdikoffa, Anna (8man-demo\Anna Pakdikoffa)	3/7/2016	436	true			- 1	
	8	Moe Zarella (8man-demo\Moe Zarella)	3/7/2016	436	true			- 1	Change password option
	8	Kai Serslauten (8man-demo\Kai Serslauten)	3/7/2016	436	true			- 1	
	8	Sue Permarkt (8man-demo\Sue Permarkt)	3/7/2016	436	true			- 1	
	•	Minni Ralwasser (8man-demo\Minni Ralwasser)	3/7/2016	436	true				
	8	Erkan Alles (8man-demo\Erkan Alles)	3/7/2016	436	true				
	8	Bill Anz (8man-demo\Bill Anz)	3/7/2016	436	true				
	8	Tom Ate (8man-demo\Tom Ate)	3/7/2016	436	true				
	8	Mel Odie (8man-demo\Mel Odie)	3/7/2016	436	true				
	8	Karl Kulation (8man-demo\Karl Kulation)	3/7/2016	436	true				
	8	Gitta Rensolo (8man-demo\Gitta Rensolo)	3/7/2016	436	true				
	8	Ansgar Agentor (8man-demo\AAgentor)	3/7/2016	436	true				
	8	Hacke, Petra (8man-demo\Petra.Hacke)	3/7/2016	436	true				
	\$	Krise, Christiane (8man-demo\Christiane.Krise)	3/7/2016	436	true				
	8	Silie, Peter (8man-demo\Peter.Silie)	3/7/2016	436	true				
	8	Rosi Ne (8man-demo\Rosi Ne)	3/7/2016	436	true				
	8	Anna Lyse (8man-demo\Anna Lyse)	3/7/2016	436	true				

- 1. 8MAN lists all inactive accounts.
- 2. Use sorting, filtering and grouping to analyze the data.
- 3. Select the rows to display in the grid and in the reports.
- 4. Export the data into Excel.
- 5. Create a report in PDF- oder CSV-format. Save the report or e-mail it.



2.1.2 Identifying recursive groups using the web client

Background / Value

Groups can be members of other groups. Active Directory allows "children" to become "parents" within their own family tree. If the nested group structure loops in a circular way group membership assignments become ineffective and nonsensical. Through these recursions or circular nested groups every user who is a member of any of the recursive groups is granted all of the access rights of all of the groups. The consequence is a confusing mess of excessive access rights. 8MAN automatically identifies all recursions in your system. We highly recommend removing the recursion by breaking the chain of circular group memberships.

Additional Services

The deeper your group structure the more likely you are to have circular nested group structures. We therefore recommend keeping an eye on the number of nested group levels.

Idenitfying recursive groups (using the rich client)

Break the circle by managing group memberships (using the rich client) or removing group memberships using the webclient.

B 8MAN Web ×		*	- • ×	Login to the web client.
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	Login			
	Login as current Windows User			
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B 8MAN Web X



- 1. After login you see the web client homepage.
- 2. 8MAN shows an overall rating in the area "Risk Management". The higher the number the higher the risk level. Click the tile.

- 1. 8MAN shows a rating for the risk factor "Groups in recursion".
- 2. Click "Minimize risks".

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More +	Minimize Risks	More -	2 Minimize Risks	More +	Minimize Risks	More +	Minimize Risks
Directories with u	nresolved SIDs	Direct	ories with direct access	Directories	with changed access rights		
Risk Level	35 1 of 503 directories	Risk Level	100 476 of 503 directories	Risk Level	100 20 of 503 directories		
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- 1. 8MAN lists all groups in recursion.
- 2. Use sorting, filtering and grouping to analyze the data.
- 3. Select the rows to display in the grid and in the reports.
- 4. Export the data into Excel.
- 5. Create a report in PDF- oder CSV-format. Save the report or e-mail it.

2.1.3 Identifying users with never expiring passwords using the web client

Background / Value

One key security requirement within any organization is that passwords are changed regularly. Use the scenario to find accounts where this requirement has not been activated. View this information in the web interface and create reports.

Additional Services

Resetting passwords (using the rich client) Changing password options (using the rich client)

Step by step process



8MAN

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sk Assessment	Dashboard							
		High Risk Level High Risk Medium Risk Low Risk 		100		Print	View	
	Inactive acc	ounts	c	Groups in recursion	Accour	nts where password never expires	Globa	ly accessible directories
Risk Level	1 56 of 357 a 8man-der	00 Risk	Level	16 33 of 267 groups 8man-demo.local	Risk Level	100 342 of 357 accounts 8man-demo.local	Risk Level	13 51 of 503 directories Visrv-8man
More -	Minimize	Risks Mor	e -	Minimize Risks	More -	2 Minimize Risks	More -	Minimize Risks
Dimeteri	es with unresolve	d SIDs	Directories	with direct access	Directo	ories with changed access rights		
Directoria			Level	100	Risk Level	100		

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- 1. 8MAN shows a rating for the risk factor "Accounts where password never expires".
- 2. Click on "Minimize risks".

- 1. 8MAN lists all accounts where password never expires.
- 2. Use sorting, filtering and grouping to analyze the data.
- 3. Select the rows to display in the grid and in the reports.
- 4. Export the data into Excel.
- 5. Create a report in PDF- oder CSV-format. Save the report or e-mail it.

2.1.4 Identifying globally accessible directories using the web client

Background / Value

If "Everyone accounts" are used for the assignment of access rights, (almost) everyone has access to the connected resources. The consequence is an excessive assignment of access rights and a high probability for unauthorized access. These go against the principle of least privilege and should therefore not be used. Before deleting permissions you should assign specific groups to the appropriate resources.

"Everyone accounts" are:

- Everyone
- Authenticated Users
- Domain-Users

Additional Services

Removing permissions from globally accessible directories in bulk

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B 8MAN Web X



- 1. After login you see the web client homepage.
- 2. 8MAN shows an overall rating in the area "Risk Management". The higher the number the higher the risk level. Click the tile.

- 1. 8MAN shows a rating for the risk factor "Globally accessible directories".
- 2. Click "Minimize risks".

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\\srv-8man\clean! source\clean! 1\10 - Ungewollte Berechtigung definiert\JederBerechtigung	Everyone Full control	Remove ACE
\\srv-8man\clean! source\clean! 1\10 - Ungewolite Berechtigung definiert\JederErstBesiAuthBen	Everyone Full control	
\\srv-8man\clean! source\clean! 2\05 - NULL DACL\NullDACL	Everyone Full control	
\\srv-8man\clean! source\clean! 2\10 - Ungewolite Berechtigung definiert\JederBerechtigung	Everyone Full control	
\\srv-8man\clean! source\clean! 2\10 - Ungewollte Berechtigung definiert\JederErstBesiAuthBen	Everyone Full control	
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\\srv-8man\clean! source\clean! 3\10 - Ungewollte Berechtigung definiert\JederBerechtigung	Everyone Full control	
\\srv-8man\clean! source\clean! 3\10 - Ungewollte Berechtigung definiert\JederErstBesiAuthBen	Everyone Full control	
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\\srv-8man\clean! source\clean! 6\10 - Ungewollte Berechtigung definiert\JederBerechtigung	Everyone Full control	
\\srv-8man\clean! source\clean! 6\10 - Ungewollte Berechtigung definiert\JederErstBesiAuthBen	Everyone Full control	
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\\srv-8man\clean! source\clean! 5\10 - Ungewollte Berechtigung definiert\JederErstBesiAuthBen	Everyone Full control	
\\srv-8man\clean! source\clean! 7\05 - NULL DACL\NullDACL	Everyone Full control	
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- 1. 8MAN lists all globally accessible directories.
- 2. Use sorting, filtering and grouping to analyze the data.
- 3. Select the rows to display in the grid and in the reports.
- 4. Export the data into Excel.
- 5. Create a report in PDF- oder CSV-format. Save the report or e-mail it.



2.1.5 Identifying unresolved SIDs using the web client

Background / Value

SIDs (Security Identifiers) are strings that are used to identify user and group accounts in Active Directory. SIDs become unresolved when users or groups with direct permissions are deleted in AD. By using unresolved SIDs insider threats can gain access to sensitive resources.

8MAN clearly identifies unresolved SIDs in your system.

Additional Services

Identifying and deleting unresolved SIDs (using the rich client) Removing a user and their permissions (using the rich client) <u>Removing unresolved SIDs in bulk</u> (using the web client)

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- 1. After login you see the web client homepage.
- 2. 8MAN shows an overall rating in the area "Risk Management". The higher the number the higher the risk level. Click the tile.

- 1. 8MAN shows a rating for the risk factor "Directories with unresolved SIDs".
- 2. Click "Minimize risks".

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						Change owner
					•	

- 1. 8MAN lists all unresolved SIDs.
- 2. Use sorting, filtering and grouping to analyze the data.
- 3. Select the rows to display in the grid and in the reports.
- 4. Export the data into Excel.
- 5. Create a report in PDF- oder CSV-format. Save the report or e-mail it.

2.1.6 Identifying direct permissions using the web client

Background / Value

Direct access rights should be avoided at all costs and be replaced by group access rights. Firstly, direct access rights are inefficient because every user has to be managed independently. Secondly, each directory needs to be examined individually to ensure the removal of all direct permissions. 8MAN shows you all direct access rights on your file server(s).

8MAN strictly adheres to Microsoft Best Practice and assigns a group for every access right.

Additional Services

Removing direct permissions in bulk

Using the 8MATE clean! you can replace direct permissions with group memberships automatically.

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B 8MAN Web ×



- 1. After login you see the web client homepage.
- 2. 8MAN shows an overall rating in the area "Risk Management". The higher the number the higher the risk level. Click the tile.

- 1. 8MAN shows a rating for the risk factor "Directories with direct access".
- 2. Click "Minimize risks".

▲ _ □ ×

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lisrv-8man	2	Inv-8man Visrv-8man	
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- 1. 8MAN lists all direct permissions.
- 2. Use sorting, filtering and grouping to analyze the data.
- 3. Select the rows to display in the grid and in the reports.
- 4. Export the data into Excel.
- 5. Create a report in PDF- oder CSV-format. Save the report or e-mail it.

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2.1.7 Identifying directories with differing permissions

Background / Value

As part of best practices you should assign differing permissions unto the third or fourth level below share. Every directory below this level should inherit permissions. Assigning differing permissions to the deepest levels creates a confusing and complex access rights situation forcing excessive permissions.

Additional Services

Removing corrupted inheritance (using the rich client) <u>Removing differing permissions in bulk</u> (using the webclient)



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- 1. 8MAN shows a rating for the risk factor "Directories with direct access".
- 2. Click "Minimize risks".

- 8MAN lists all directories with differing permissions.
 8MAN lists differing permissions deeper than level 3 below share.
- 2. Use sorting, filtering and grouping to analyze the data.
- 3. Select the rows to display in the grid and in the reports.
- 4. Export the data into Excel.
- 5. Create a report in PDF- oder CSV-format. Save the report or e-mail it.

3 Resource Integration

3.1 Easy Connect - integrating any resources

Background / Value

Integrate further resources to 8MAN with Easy Connect. You will get the 8MAN-typical overview, analysis and reporting functionalities for these. The question "Who has access where?" can be answered more comprehensive and much easier with one single solution. Import data from a CSV-file or via SQL-scripts manual or automatically.

3.1.1 Analysing Easy Connect resources

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The example shows access rights information imported from a Linux file system and a MS SQL-server.

- 1. Linux file system information are imported from a CSV-file.
- 2. SQL-server access rights information are imported via SQL-script.



- 1. 8MAN search includes easy connect resources.
- 2. The scenario "Where does a user/group have access?" includes Easy Connect resources.
- 3. The scenario includes the imported SQL-server resource.
- 4. Navigate through Easy Connect resources.
- 5. Access rights of the desired user are shown in 8MAN-typical style.

3.1.2 Creating a report for an Easy Connect resource



- 1. Choose "Resource" view
- 2. Select a resource, e.g. "SRVUBUNTU".
- 3. Choose the report: "Who has access where?" from the context menu.

- 8MAN Version: Who has access where? ort configuration Who has access where? Access right report on resources with detailed pe 4004 Title Active Directory File server Skchange VSphere Purpose Groups SAP-System Easy Connect - SV File SkVUBUNTU File home File home File home File home ent Comment Objects Organizational categories 🟐 Paths 🔵 SRVUBUNTU • • • • • Levels to resolve under the selected resource ✓ Translate names of groups to purpose group name ✓ Details ✓ Filter Easy Connect - SQI Group settings Options Settings The output format is <u>PDF</u> ~ eport execution mode <u>started manually</u> sustom storage path is <u>not configured</u> end email is <u>Deactivated</u> AN-DEMO.LOCAL Catest so
- 1. Configure the report. Options are the same as on any "builtin" resource.
 - 2. Start the report.

3.1.3 **Integrating Easy Connect ressources**



Click "Scans" on the 8MAN configuration module homepage.

- 1. Add an Easy Connect resource.
- 2. The configuration is seamlessly integrated.
- 3. Configure a regularly import.



8MAN supports the following SQLserver:

- Microsoft SQL
- Oracle SQL
- MySQL
- PostgreSQL

8MAN Configuration Version:			×
Back			
License Information		Server Status	
80	ΛΑΝ	Uptime: 22 hours Version: 8.086.0 Logged in users: 2	
Customer Licensed: Licensed since	Protected Networks GmbH Yes Thursday, March 9, 2017 3:00 PM Load license	Name Domain Host BMAN Component Ø demoadmin 8MAN-0EMO sro-8man 6MAN Ø demoadmin 8MAN-0EMO sro-8man Configuration	
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Find a detailed documentation on required CSV-file structure and example files under "License" in the configuration module.

3.2 8MATE for SharePoint 8.0 - Supporting 2016 and Online

Microsoft offers two ways of ineracting with a SharePoint Server:

- Server Side Object Model (SSOM)
- Client Side Object Model (CSOM)

8MAN uses until version 7.5 the Server Side Object Model only. A component installation (collector) on the SharePoint server is needed. If you are using SharePoint Online or a hosted SharePoint service you are not allowed to install anything on the SharePoint server. In future we will change to the Client Side Object Model where no component installation is needed. The Server Side Object Model will be supported until 8MAN version 8.5. Both Models can be used at the same time for different SharePoint servers.

How 8MAN 7.6 supports SharePoint:

	SharePoint 2010	SharePoint 2013	SharePoint 2016	SharePoint Online
SSOM (farm based) Read and Modify	\checkmark	\checkmark	×	x
CSOM - SharePoint Remote Connector Read and Modify*	~	~	~	✓

* Modify includes changing SharePoint access rights and SharePoint group memberships. Creating SharePoint groups automatically by the group wizard is not supported.

8MAN users use the GUI for SharePoint resources as before. A new progress indicator for executing status on changes is added.

For configuring the new remote connector please see: <u>Configuring the SharePoint Remote Connector</u>.

3.2.1 8MATE SharePoint - Progress indicator for changes



8MAN displays the progress while executing changes on SharePoint resources.

8MAN

4 User Provisioning

4.1 8MAN Enterprise - Executing scripts before and after changes

Background / Value

Integrate scripts into 8MAN Enterprise and execute them before and after changes. Automate standard processes and increase efficiency.

- Add scripts to the following change tasks: Creating an user account Managing group memberships
- Moving objects in Active Directory
- Removing a user and their permissions
- Modifying group and user attributes
- Creating groups and adding users
- Deactivating a user account

Provide scripts using the 8MAN configuration module.
4.2 New bulk operations

4.2.1 Removing permissions from globally accessible directories in bulk

Background / Value

If "Everyone accounts" are used for the assignment of access rights, (almost) everyone has access to the connected resources. The consequence is an excessive assignment of access rights and a high probability for unauthorized access. These go against the principle of least privilege and should therefore not be used. Before deleting permissions you should assign specific groups to the appropriate resources.

"Everyone accounts" are:

- Everyone
- Authenticated Users
- Domain-Users

Additional Services

Report: Identifying usage of "Everyone" (using the rich client) Report: Identifying usage of "Authenticated Users" (using the rich client)





All AD user accounts All AD group accounts

Groups in recursion

Group memberships

Directories with unresolved SIDs Directories with direct access Directories with changed access rights

File system permissions

Inactive accounts

Accounts where password never expires

Group selection

Paths

Additional group



All 'Everyone' permis

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Search for group

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- "mycompany-complete".
- 3. Select a file server.
- 4. Start the calculation.

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ath	7	Account	Rights	Requested Action	Available Actions
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srv-8man\clean! source\clean! 1\10 - Ungewollte Berechtigung definiert\JederBerechtigung		Everyone	Full control		4 Remove ACE
ev-8man\clean! source\clean! 1\10 - Ungewollte Berechtigung definiert\JederErstBesiAuthBe	n	Everyone	Full control		
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srv-8man\clean! source\clean! 7\05 - NULL DACL\NullDACL		Everyone	Full control		

- 1. 8MAN lists all globally accessible directories.
- 2. Use sorting, filtering, grouping and column selection to locate the desired rows.
- *3. Select the desired entries.*
- 4. Click "Remove ACE".

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8MAN A Home O Recertification	Remove ACE	×	© ≉ - Ademoadmin -
Globally accessible directories Drag columns here to create groups. Path A	Execute for Visrv-Bmanicleant Sourceicleant 10 Berechtigung definiert vederBerechtigung Comment Please enter a comment	All 'Domain Users'	Reports Direct Excel export Create Report Available Actions Execute script
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- 1. Leave a comment.
- 2. Click "Execute Action".

4.2.2 Removing direct permissions in bulk

Background / Value

Direct permissions should be avoided at all costs and replaced by group permissions. Firstly, direct access rights are inefficient because every user is managed independently. Secondly, each directory needs to be examined individually to ensure the removal of all direct permissions. 8MAN shows you all direct access rights on your file server(s). You can remove them in bulk using the web client.

Additional Services

8MATE Clean! allows you to automatically remove direct access rights and turn them into group memberships.

Changing password options in bulk <u>Removing unresolved SIDs in bulk</u>

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	Bman-demo English Login			
	Login as current Windows User Powered by Protected Networks v 8.0 2931e76 15.5.2017_1.17			

Groups In recursion Inactive accounts Group memberships Globally accessible directories Directories with unresolved SIDs Directories with direct access ights Directories with changed access rights





8 8MAN Web ×					± _ 🗆
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Directories with direct access (1445)		2 Directori	es with direct access: \\srv-8man		Direct Excel export
Drag columns here to create groups.			8 columns selected 🔍 C 🔠	e c	Create Report
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\srv-8man\Marketing\Flyer\USA	srv-8man	Peer Sie	CN=Peer Sie,OU=TestUsers,DC=8man-demo,DC=local	8MAN-DEMC	Remove ACE
srv-8man\Marketing\Flyer\Germany\moved	srv-8man	cradmin	CN=cradmin,CN=Users,DC=8man-demo,DC=local	8MAN-DEMC	
3.8man\Marketing\Flyer\Germany\moved	srv-8man	Peer Sie	CN=Peer Sie,OU=TestUsers,DC=8man-demo,DC=local	8MAN-DEMC	
\srv-8man\Marketing\Flyer\Germany\moved	srv-8man	cradmin	CN=cradmin,CN=Users,DC=8man-demo,DC=local	8MAN-DEMC	
\srv-8man\Marketing\Flyer\Germany	srv-8man	Peer Sie	CN=Peer Sie,OU=TestUsers,DC=8man-demo,DC=local	8MAN-DEMC	
\srv-8man\Marketing\Flyer\Germany	srv-8man	cradmin	CN=cradmin,CN=Users,DC=8man-demo,DC=local	8MAN-DEMC	
\srv-8man\Marketing\Flyer\Germany	srv-8man	cradmin	CN=cradmin,CN=Users,DC=8man-demo,DC=local	8MAN-DEMC	
\srv-8man\Marketing\Flyer\GB	srv-8man	cradmin	CN=cradmin,CN=Users,DC=8man-demo,DC=local	8MAN-DEMC	
\srv-8man\Marketing\Flyer\GB	srv-8man	Peer Sie	CN=Peer Sie,OU=TestUsers,DC=8man-demo,DC=local	8MAN-DEMC	
\srv-8man\Marketing\Flyer\GB	srv-8man	cradmin	CN=cradmin,CN=Users,DC=8man-demo,DC=local	8MAN-DEMC	
\srv-8man\Marketing\Flyer\France	srv-8man	cradmin	CN=cradmin,CN=Users,DC=8man-demo,DC=local	8MAN-DEMC	
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\srv-8man\Marketing\Events\The Art of Security 2011	srv-8man	Peer Sle	CN=Peer Sie,OU=TestUsers,DC=8man-demo,DC=local	8MAN-DEMC	

- 1. 8MAN lists all direct permissions.
- 2. Use sorting, filtering, grouping and column selection to locate the desired rows.
- *3. Select the desired entries.*
- 4. Click "Remove ACE".

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- 1. Leave a comment.
- 2. Click "Execute Action".

4.2.3 Removing unresolved SIDs in bulk

Background / Value

SIDs (Security Identifiers) are strings that are used to identify user and group accounts in Active Directory. SIDs become unresolved when users or groups with direct permissions are deleted in AD. By using unresolved SIDs insider threats can gain access to sensitive resources.

8MAN clearly identifies unresolved SIDs in your system. Delete unresolved SIDs in bulk using Analyze & Act.

Additional Services

Identifying and deleting unresolved SIDs (using the rich client) Report: Identifying unresolved SIDs (using the rich client)







File server

🕑 \\srv-8mai

All AD group accounts Accounts where password never expires

Groups in recursion Inactive accounts Group memberships Globally accessible directories Directories with unresolve SIDs Directories with direct access Directories with changed access rights File system permissions

https://srv-8man.8man-demo.local/#/analyze;id=1311e094-e82d-4152-b113-e2b7a60a8dbf

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 Configuration *</p
 - 1. 8MAN lists all Directories with unresolved SIDs.
 - 2. Use sorting, filtering, grouping and column selection to locate the desired rows.
 - 3. Select the desired entries.
 - 4. Click "Remove ACE".

- 1. Leave a comment.
- 2. Click "Execute Action".

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4.2.4 Removing differing permissions in bulk

Background / Value

It is part of best practices assigning differing permissions just unto the third or fourth level below share. All directories below this level should inherit their permissions. Assigning differing permissions unto the deepest levels of directories increases the error-proneness.

Additional Services

Removing corrupted inheritance (using the rich client)





- Click on "Directories with changed access rights".
 Select a file server.
 - 3. Start the calculation.

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All AD user accounts					าี เ
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Accounts where password never expires			🕑 \\srv-8man		
Groups in recursion					-
Inactive accounts					
Group memberships					
Globally accessible directories					
Directories with unresolved SIDs					
Directories with direct access					
Directories with changed access rights					
File system permissions					

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- 8MAN lists all directories with differing permissions.
 8MAN lists differing permissions in directories deeper than level 3 below share.
- 2. Use sorting, filtering, grouping and column selection to locate the desired rows.
- *3. Select the desired entries.*
- 4. Click on "Remove ACE".

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- 1. Leave a comment.
- 2. Click on "Execute Action".



4.2.5 Removing permissions using the webclient

Background / Value

Excessive permissions are everyday business in access rights management. Set manager into the role of a data owner and 8MAN enables them to remove permissions on resources they are responsible for. The web client enables non technical managers to master access rights.

Additional Services

Removing group memberships using the webclient

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8 8MAN Web ×		▲ _ □ ×	1.	Click on "Directory permissions"
				//
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- 1. Optional: Select an account. Leave this field empty to list all accounts with permissions.
- Select at least one resource. Use the configuration module to define resources available to data owners.
 8MAN administrators may change all resources.
- 3. Start the calculation.

- ≛ □ × 8 8MAN Web × ☆ : odmin -🛛 Requesting 🗸 🛭 🗞 Workflo 8MAN 🕈 Home 🕂 Recertification - 🔟 Analyze -🏟 - 🔍 dem Configuration 🌣 Reports File system permissions (13) 🕛 File system perr C 🔳 🖹 🗹 Available Actions Marke Full control Dee, Dan (8man-demo\Dan De Full cont arketing\Events Events Dee, Dan (8man-demo\Dan Dee Full control Full contr Full control der123 Full control New Folder123 Dee, Dan (8man-demo\Dan Dee) tina\Vorlagei Dee, Dan (8man-demo\Dan Dee Full contro Full controlV eting\Events\xplizite Event xplizite Event Marketing\Events\xplizite Events\E i Etablissements in Ungar Dee Dan (8man-demo\Dan Dee) Full control Full controlV arketing\Secret Projects Secret Projects Dee, Dan (8man-demo\Dan Dee) Full control Full controlV Produktbeschre Dee, Dan (8man-de mo\Dan Dee Full control Full controlV Read and Execute Read and Ex 0 Dee Dan (8man-demo\Dan Dee) -8man\Marketing Dee, Dan (8man-demo\Dan Dee) Read and Execute Read and Ex Dee, Dan (8r Read and Execute Read and Ex New Folder123 Read and Execute Read and Ex
- 1. 8MAN lists all permissions of the previously selected user, shares and their subdirectories.
- 2. Use sorting, filtering, grouping and column selection to locate the desired rows.
- 3. Select the desired entries.
- 4. Click on "Remove access right".

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8	BMAN & Home © Recertification	Remove access rigi	ht		×		بن ب			
	ile system permissions (13)	Execute for Vor-SmanMarkeling, Usrv-SmanMarkeling/Events, Var-BmanMarkeling/Events/spliz/te Events, Visrv- BmanMarkeling/Events/spliz/te Events/Etablissements in Ungarn,			system permissions (13) Execute for Usrv-BraniMarketing, Usrv-BraniMarketing, Usrv-BraniMarketing/Events, Usrv-BraniMarketing/Events/public/E Events, Usrv-BraniMarketing/Events/public/E Events/public/E Events/BraniMarketing/Events/public/E Events/BraniMarketing/Events/public/E Events/BraniMarketing/Events/public/E Events/BraniMarketing/Events/P Events/BraniMarketing/Events/P Events/BraniMarketing/Events/P Events/BraniMarketing/Events/P Events/BraniMarketing/Events/P Events/BraniMarketing/Events/P Events/BraniMarketing/Events/BraniMarketing/Even					Reports Direct Excel export Create Report
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- 1. Leave a comment.
- 2. Click on "Execute Action".



4.2.6 Removing group memberships using the webclient

Background / Value

Excessive permissions are everyday business in access rights management. Set manager into the role of a data owner and 8MAN enables them to remove group memberships they are responsible for. The web client enables non technical managers to master access rights.

Additional Services

Removing permissions using the webclient



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ttp	× x x/arve#man.demo.local/#/analyzesid=3c90db66-b5fb-4095-8914-3717231bcb75:directLink=true	1.	Find want
	Group memberships 2 Start calculation for your scenariol	Ζ.	Start
	Select a group <u>C-level</u> Or <u>C-level (8man-demo(C-Level)</u>		

- I. Find the group from which you want to remove members.
- 2. Start the calculation.

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C-Level (dman-demol/C-Level) A Hacke Petra (dman-demol/Petra Hacke)	

- 1. 8MAN lists all members of the previously selected group.
- 2. Use sorting, filtering, grouping and column selection to locate the desired rows.
- 3. Select the desired entries.
- 4. Click "Remove membership".



- 1. Leave a comment.
- 2. Click "Execute Action".



User Provisioning

5 Role & Process Optimization

5.1 8MATE GrantMA

5.1.1 Assigning resource owners using the web client

Background / Value

With version 8.0 8MAN releases new features to move the GrantMA configuration into the web client. We inserted the new role "Resource Owner". Assign this role completely using the web client. Due to the requirements of our customers we designed a direct assignment between the Resource Owner and the resource - without the need of creating organizational categories in the data owner configuration.

The functionality is deactivated by default. Please contact support for activating.

Additional Services

Defining individual approval workflows

Step by step process



Login to the web interface with admin credentials.

- 1. Click the gear-wheel.
- 2. Select "Resource owners".

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					All AD group accour	ts	267 _C	Group mer	nberships	



- Search for resources or alternatively navigate through the tree.
- 2. Gray text color indicates that no resource owner is assigned to the directory.
- 3. Green text color indicates an existing assignment.
- 4. The icons indicate assignments and assignments in subdirectories.

1. Find an user or a group.

4 – 🗆 🗙

- 2. Click a search result to set an assignment.
- *3.* Delete an existing assignment.

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$\epsilon \Rightarrow c$	https://srv-8man.8man-demo.local/#/settings:mo	de=defaultapprover	☆ :
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		Create workflow Cancel

Design individual workflows with he new role resource owner as an pprover.

5.1.2 Importing and exporting resource owner configurations

Background / Value

Automate and accelerate the assignment of resource owners by editing a CSV-file. Import/export the assignments to transfer the configuration from one system to another, for example from a testing to a productive environment.

Additional Services

Defining individual approval workflows

Step by step process



Export the configuration to a CSVfile after assigning resource owners. Click "Export configuration".



The export file is handled as a download. Displaying and saving of the file depends on the browser.



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Server	srv-8man	\\srv-8man\Marketing	8man-demo\Sam.Urai				
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Import resource owners

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importing

2 Import data Cancel

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 https://srv-8man.8man.demo.local/

Import resource owners

Resource type

1. Option activated:

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The existing configuration will be deleted before the import.

Option deactivated:

The existing configuration will be retained. The import will be added. No duplicates will be generated.

2. Start the import process.

- 4 _ 🗆 🗙 Neuer Tab × 🛛 8MAN Web × ☆ : → C + https://srv-8man.8man-demo.local/# 8MAN & Home O Recertification - M Analyze - Requesting - % Workflows • 8 de Import resource owners Resource type FileServer Provider Resource key Resource owner OK OK OK OK OK 8man-demo\Maik Rohs 8man-demo\Sue Perma \\srv-8man\Finanz rv.8mar srv-8man srv-8man srv-8man srv-8man srv-8man srv-8man srv-8man srv-8man FileServer FileServer FileServer FileServer FileServer FileServer FileServer 8man-demo\Ann Halter 8man-demo\Ann Orak \\srv-8man\Finanz\Gehälte \\srv-8man\Finanz\Gehälte Load CSV file \\srv-8man\Finanz\Ge \\srv-8man\Finanz\Ass \\srv-8man\Marketing \\srv-8man\Marketing 8man-demo\Moni Tor 8man-demo\Andi Arbeit
 - 1. 8MAN shows you where errors occurred during import.
 - 2. Edit the fields of the table to fix small errors immediately.

5.1.3 Requesting directories

Background / Value

Order new directories using the GrantMA self service portal. This feature is useful for companies that follow restrictive policies for directory creation. We recommend that you allow the creation of directories up to the level three or four below the share only after requesting and approving. Find resources quickly with the search.

Additional Services

Requesting file server permissions from the data owner



- 4 _ 0 × 🛛 8MAN Web 🛛 🗙 5255C%25255C 🖣 😭 🚦 SMAN A Home 🛛 Requesting -& Ricky Requester -Create a new request ٩ 1 Search resource Start / Search / Marketing reate new objects Resource Details Create directory File server - Directory Resources Action Resource Details File server - Directory \\srv-8man\Marketing\Events Request 🛛 🖻 <u>Events</u> File server - Directory \\srv-8man\Marketing\Flyer Request 🔲 🖹 Flyer File server - Directory \\srv-8man\Marketing\Press Request 📃 📑 Presse File server - Directory \\srv-8man\Marketing\ 8MAN Request 📄 🖹 Produktbeschreib Request 🔲 🖻 File server - Directory \\srv-8man\Marketing\Secret Proj Secret Projects File server - Directory Request 📄 📄
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- 1. Find the desired resource.
- 2. Alternatively: Navigate to the desired resource.
- 3. Click "Request" in the "Create new objects" area.

- Give the new directory a name.
 Blace the and a factor is the standard state.
- 2. Place the order in the shopping cart.



- 1. 8MAN will show you the order basket with your requests.
- 2. Alternatively, delete your
- 3. You must enter a comment, e.g. a ticket number.
- 4. Close your request.

5.1.4 Single Sign On to the web client

Background / Value

With the version 8.0 we introduce Single Sign On (SSO) for the 8MATE GrantMA. Windows logon information is automatically transferred to the Web client. It is no longer necessary to enter user name and password. This increases the ease of use. Alternatively, other credentials may be used.

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0	8MAN	
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	English • Login	
	Login as current Windows User	
	Powered by Protected Networks v 8.0 0d43604 18.5.2017_1:18	

- 1. Login as current Windows user.
- 2. Login with alternate credentials.

6 Security Monitoring

6.1 Scheduling and filtering FS Logga reports

Background / Value

As of version 8.0, the FS Logga reports can be executed in a timed manner. In addition, we have installed additional filter options. In previous versions, filter functions could only be applied to the finished Excel report.

As of version 8.0, the FS Logga reports can be executed in a timed manner. In addition, we have installed additional filter options. In previous versions, filter functions could only be applied to the finished Excel report.

Step by step process



Select "Start".
 Click on "Who did what?".

- 8MAN Version: Who did what? Who did what? Pern Monitored actions 🕰 Filter Ret Directory / file created Directory / file deleted Directory / file moved or File read ing (SRV-8MAN) actions • Sec . Settings The output format is <u>PDF</u> * Report execution mode <u>started m</u> Custom storage path is <u>not config</u> Send email is <u>Deactivated</u> Start Discard Catest sca AN-DEMO.LOCAI
- 1. Enter a title for the report and add a comment.
- 2. Specify the period of time for logging events in the report.
- 3. Add resources. You can only add resources that are included in the FS Logga configuration.
- 4. Add recorded actions.

- 1. Add authors. Use filter and search to find the desired users.
- 2. Define the desired output settings:
 - Format: PDF or XLS
 - Scheduling of regular reports
 - Saving location
 - send via e-mail
- 3. Start the report.

	Search		
	Who did what?		×
Pern • v • v • v • v • v • v • v • v	Report configuration Title Title Comment Comment Reference period Faced time span 10/5/2014 12:51 PM - 10/7/2014 12:51 PM Resource	Who did what? Please select users/groups Q Search Users @ Groups Name @ Dee, Den (8man-demo)Dan Dee)	x d €4 Filter d €24 X indf s torf
Secu Fil			ss af a w)7 which
	Custom storage path is <u>not configured</u> Send email is <u>Deactivated</u>	3 Start	Discard

6.2 8MATE FS Logga - SSL-support for NetApp C-Mode

The 8MATE FS Logga now supports SSL for NetApp C-Mode.

The system requirements for the FS-Logga have been adapted.

8MAN

7 8MAN Application Integration

7.1 8MATE Programming Interface

8MAN webAPI supports a new function: "Reset password". The most frequently occurring request to the help desk can now be integrated into ordering systems like "ServiceNow" or "Matrix42".

8 8MAN Konfiguration

8.1 New homepage layout

The 8MAN configuration homepage and the change configuration will have new layouts and functions.





Find the desired setting options quickly with the new filter function.







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8.2 Configuring scripts

Scripts must be stored in the following directory:

%ProgramData%\protected-networks.com\8MAN\scripts\analyze

Supported file types are:

- .ps (PowerShell)
- .vbs (VisualBasic)
- .bat
- .cmd
- .js (nodejs.exe)
- .exe



8MAN Configurati

Delete								
efore/after	r Actions	Preselection	Script file on server	Parameters		Credentials	Name	
after ~	Create user account	•	~ ·	Command line arguments ~	{samaccountname}	<pre><optional< pre=""></optional<></pre>	Create HomeDirectory Berlin	
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ifter ~	Create user account	•	· · ·	Command line arguments v	[samaccountname] [department] [displayname] [employeeid] (givenname] [sn] {Password] [userprincipalname]	<pre></pre>	Welcome Package	
after Y	Move AD Object	•	×	JSON object and additional argume *	-Std Berlin	<optional< td=""><td>Change Location Berlin</td><td></td></optional<>	Change Location Berlin	
fter Y	Move AD Object	•	٧	JSON object and additional argume *	-Std Hannover	<pre><optional< pre=""></optional<></pre>	Change Location Hannover	
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efore Y	Delete user account	•	Ý	CSV object and additional argumen *	-Server FS-BLN-02	<optional< td=""><td>Delete HomeDirectory Berlin</td><td><u></u></td></optional<>	Delete HomeDirectory Berlin	<u></u>
fter ~	Please select actions	•	×	JSON object and additional argume *	{userprincipalname}	<pre><optional< pre=""></optional<></pre>	Archive and Delete Mail	
fter ~	Please select actions	-	v	Command line arguments ~	{samaccountname}	<optional< td=""><td>Delete IBM Notes Account</td><td><u></u></td></optional<>	Delete IBM Notes Account	<u></u>

- 1. 8MAN shows you a list of all the supported change actions before or after which scripts can be executed, as well as available parameters.
- 2. Create a new script configuration.

- Select whether to run the script before or after the action. The selection filters the available actions (column 2).
 - 2. Select an action for which you want to make a script available.
 - If you have several scripts available for an action, specify the default settings for the 8MAN users in the drop-down menu.

8MAN says	s!									
ripting Co ing scripts yo ipts must be e the comman <u>v Delete</u>	nniguration u can supplement 8MAN executed stored in folder "%ProgramData6 nd line preview by clicking the may	change actions protected-netw gnifying glass in	and automate the steps that prece orks.com\8MAN\scripts\analyze". S the right column.	de or follow an action. Here you can d iupported file formats are .ps (PowerSł	efine which scripts are availat hell), .vbs (VisualBasic), .bat, ar	ble fo nd .cr	r which chan <u>c</u> nd. 2 Informations	ge actions and which options to about supported actions and pa	o usi rame). :ters
before/after	Actions	Preselection	Script file on server	Parameters			Credentials	Name		
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before 💙	Delete user account		Y	CSV object and additional argumen *	-Server FS-BLN-02	≡	<optional></optional>	Delete HomeDirectory Berlin		C
after ~	Please select actions		Ý	JSON object and additional argume *	{userprincipalname}	Ξ	<optional></optional>	Archive and Delete Mail		C
afte 1 ~	Please selec 2 ns 🔹	3	v	Command line arguments v	{samaccountname}	≡	<optional></optional>	Delete IBM Notes Account		C
after ~	Please select actions		Abteilungswechsel.ps1 ×	Command line arguments ~		≡	<optional></optional>			0
	Create user account Create new group Move AD Object Change attributes Soft delete user account									
	Recover user account									
								demoadmin @ localhos	t€	
BMAN Configuration Version:

1. Select a script file	1.	1. Se	elect	а	scri	рt	file
-------------------------	----	-------	-------	---	------	----	------

o x

2. Select how 8MAN passes the parameters to the script. You can select the parameters directly or pass them as JSON or CSV objects.

Back										
8MAN says	s!									
ripting Co ing scripts you ripts must be : e the commar <u>v Delete</u>	nfiguration u can supplement 8MAN exec stored in folder "%ProgramD d line preview by clicking the	suted change actions ata%\protected-netw e magnifying glass in	and automate the steps that prece orks.com\8MAN\scripts\analyze". S the right column.	de or follow an action. Here you can d iupported file formats are .ps (PowerSh	efine which scripts are availa eell), .vbs (VisualBasic), .bat, a	ble for wind .cmd	which chang d. Informations	e actions and which options t about supported actions and pa	o usi rame	e. zter
before/after	Actions	Preselection	Script file on server	Parameters		G	redentials	Name		
after ~	Create user account	•	~	Command line arguments ~	{samaccountname} {department}	Ξ.	<optional></optional>	Create HomeDirectory Berlin		0
after ~	Create user account	•	~	Command line arguments *	{samaccountname} {department}	≡ 4	<optional></optional>	Create HomeDirectory Hanne		C
after ~	Create user account	•	· · ·	Command line arguments v	[samaccountname] [department] [displayname] [employeeid] (givenname] [sn] {Password] [userprincipalname]	= -	<optional></optional>	Welcome Package		C
after 👻	Move AD Object	-	v	JSON object and additional argume *	-Std Berlin	≣⊴	<optional></optional>	Change Location Berlin		C
after 🗡	Move AD Object	-	v	JSON object and additional argume *	-Std Hannover	Ξ.	<optional></optional>	Change Location Hannover	≙	¢
after ~	Move AD Object	•	~ ·	Command line arguments *	{MoveObjectName} {MoveObjectGuid} {TargetOuDomain} {TargetOuGuid}	Ξ.	<optional></optional>	Change Department		C
before Y	Delete user account	•	Ý	CSV object and additional argumen *	-Server FS-BLN-02	Ξ.	<optional></optional>	Delete HomeDirectory Berlin		0
after 👻	Please select actions	•	Ý	JSON object and additional argume *	{userprincipalname}	Ξ.	<optional></optional>	Archive and Delete Mail		0
after ~	Please select actions	•	<u> </u>	Command line arguments 2	{samaccountname}	Ξ.	<optional></optional>	Delete IBM Notes Account		0
after ~	Create user account	▼	CreateHomeDir Berlin.ps1 ~	Command line arguments ~		Ξ.	<optional></optional>			C
				Command line arguments JSON object and additional arguments CSV object and additional arguments						
y								demoadmin @ localho	st €	1

admincount AuthorComment AuthorName cn corr 8MAN Configuration Back 8MAN says! comment CommonNam company Deactivated department description displayname distinguishedir DomainContre DomainName Scripting Configuration Using scripts you can supplement 8MAN executed change actions and automate the steps that precede or follow an action. Here you can define which is Scripts must be stored in folder "SProgramData%protected-networks.com/8MANyscripts/analyze". Supported file formats are .ps (PowerShell), vbs (Vis Use the command line preview by clicking the magnifying glass in the right column. ions and which options to use. t supported actions and par New Delete before/after Actions Preselection Script file on server Parameters ne employeeid employeetype givenname homedirectory homedrive homephone after
Create user account ate HomeDirectory Berlin 📓 🔍 mand line after Command line argu ate HomeDirectory Hannc 📓 🔍 (samaccountnar (department) homedriv homepho info initials JobCreatio JobName after V Create user account Icome Package 🚺 🔍 Command line arg (samaccountnam (department) (displayname) (employeeid) (gin (sn) {Password) inge Location Berlin after Y Move AD Object - JSON object and additional argume
 Std Berlin . lastlogor after
Move AD Object
after
Move AD Object ٠ JSON object and additional argume
 Std Hannover lastlogontin lockouttime {MoveObjectName; {MoveObjectGuid} {TargetOuDomain} {TargetOuGuid} **A** Command line arguments • inge Department mail manager mobile before V Delete user account name NewObjectGuid ete HomeDirectory Berlin 🛕 🔍 • * CSV object and additional argumen * -Server FS-BLN-02
 after
 V

 Please select actions

 after
 V

 Please select actions
 • hive and Delete Mail JSON object and additional argume
 (userprincipalname objectclass ObjectDisplayNa {samacco Ξ <u><opti</u> ~ Create • <u>۹</u> ור demoadmin 🕲 localhost 🗲 🏾 📥 Ready

Select the command line parameters.

the comma	stored in folder "%ProgramL ind line preview by clicking th	ata%\protected-net	works.com\8MAN\scripts\analyze", 3	'unported his termine are no filoucer'			
	1 3	e magnitying glass ir	the right column.	supported file formats are .ps (Powers)	neii), .vbs (visuaiBasic), .bat, and .	cma. <u> Informations</u>	about supported actions and parameter
Delete							
before/after	Actions	Preselection	Script file on server	Parameters		Credentials	Name
after ~	Create user account	•	~	Command line arguments ~	{samaccountname} {department}	<optional></optional>	Create HomeDirectory Berlin
after ~	Create user account	•	~ ·	Command line arguments ~	[samaccountname] [department]	<optional></optional>	Create HomeDirectory Hannc
after ~	Create user account	•	v	Command line arguments ~	[samaccountname] [department] [displayname] [employeeid] (givenname] [sn] (Password) [vreenvirian]name]	<optional></optional>	Welcome Package G
after 👻	Move AD Object	•	v	JSON object and additional argume *	-Std Berlin	<optional></optional>	Change Location Berlin
after 💙	Move AD Object	•	v	JSON object and additional argume *	-Std Hannover	<optional></optional>	Change Location Hannover
after ~	Move AD Object	•	v	Command line arguments ~	{MoveObjectName} {MoveObjectGuid} {TargetOuDomain} {TargetOuGuid}	<optional></optional>	Change Department
before 👻	Delete user account	•	v	CSV object and additional argumen *	-Server FS-BLN-02	<optional></optional>	Delete HomeDirectory Berlin
after ~	Please select actions	•	v	JSON object and additional argume *	{userprincipalname}	<optional></optional>	Archive and Delete Mail
	Please select actions	-	v	Command line arguments *	{samaccountname}	<optional></optional>	Delete IBM Notes Account
after ~							

Select the type of data transfer to the script. Using a JSON or CSV object as a selection causes the script to provide a temporary file that contains the object data in the selected format.

For information on the available parameters in the CSV / JSON objects, please contact support.

Use the <u>command line preview</u> for a detailed view of passing.

Delete	ind line preview by dicking the	magnifying glass in	the right column.			O Information	s about supported actions and pa	rame	ters
efore/after	Actions	Preselection	Script file on server	Parameters		Credentials	Name		
after ~	Create user account	•		 Command line arguments 	{samaccountname}	<pre><coptional></coptional></pre>	Create HomeDirectory Berlin		۹
after ~	Create user account	•		Command line arguments	(department) (samaccountname) (department)	<optional></optional>	Create HomeDirectory Hanno		۹
after ~	Create user account	•		Command line arguments	[samaccountname] [department] [displayname] [employeeid] (givenname] [sn] {Password] [userprincipalname]	<pre><optional></optional></pre>	Welcome Package		۹
ifter Y	Move AD Object	•		* JSON object and additional argume *	-Std Berlin	<pre><optional></optional></pre>	Change Location Berlin		۹
after Y	Move AD Object	•		* JSON object and additional argume *	-Std Hannover	<pre>coptional></pre>	Change Location Hannover	4	۹
after ~	Move AD Object	•		Command line arguments ·	{MoveObjectName} {MoveObjectGuid} {TargetOuDomain} {TargetOuGuid}	<pre><optional></optional></pre>	Change Department		۹
pefore Y	Delete user account	•		* CSV object and additional argumen	-Server FS-BLN-02	<pre><optional></optional></pre>	Delete HomeDirectory Berlin	≙	۹
after Y	Please select actions	•		* JSON object and additional argume *	{userprincipalname}	<optional></optional>	Archive and Delete Mail		۹
after ~	Please select actions	•		Command line arguments	{samaccountname}	<optional></optional>	Delete IBM Notes Account		۹
fter ~	Create user account	• V	CreateHomeDir Berlin.ps1	 Command line arguments 		<optional></optional>			٩

- Specify credentials to run the script. If you do not specify any, the credentials from the base configuration are used.
- Give the script assignment a unique name for the selection in the 8MAN user interface.
- 3. Leave a description.

8MA	V Configuration Versi	on:						_ 🗆 ×	Get a command line preview at any
Back									time
8MAN sav									time.
Scripting Co Using scripts yo Scripts must be Use the comma	onfiguration ou can supplement 8MAN execu stored in folder "%ProgramDat and line preview by clicking the r	ted change a%\protecte magnifying g	actions d-netw glass in	and automate the steps that prece prks.com\8MAN\scripts\analyze". S the right column.	de or follow an action. Here you can d upported file formats are .ps (PowerSI	define which scripts are available hell), .vbs (VisualBasic), .bat, anc	for which change actions and which .cmd.	options to use.	
before/after	Actions	Presel	ection	Script file on server	Parameters		Credentials Name		
after ~	Create user account	•			Command line arguments	{samaccountname}	<pre><coptional></coptional></pre> Create HomeDirector	ry Berlin 🛕 🔍	
after ~	Command line pre	eview					×	Hannc 🛕 🔍	
after ~								<u></u>	
	powershell. \ArchiveAnd	.exe -in dDelMail	nputf l.ps1	ormat none -File C:\ -json {jsonfile} {u	ProgramData\protected- serprincipalname}	-networks.com\8MAN\	scripts\analyze		
after ~	Copy to clipboard								
after ~							Close	nover E Q	
						{TargetOuGuid}	_		
before v		• ·				-Server FS-BLN+02	<pre></pre>	ny Berlin 🔛 🔍	
after	Please select actions	•				{samaccountname}	<pre>soptional> Delete IBM Notes Ac</pre>	count	
after ~	Create user account	•	1	CreateHomeDir Berlin.ps1	Command line arguments		<optional></optional>		
								Apply	
Ready							demosdmin (🔋 localhost 🗲 🔛	



8.3 Configuring the SharePoint Remote Connector

With the 8MATE for SharePoint, you can integrate SharePoint as a resource into 8MAN Access Rights Management.

For a transitional period, we offer two SharePoint modules in version 8.0, which can also be operated simultaneously:

1. Previous 8MATE for SharePoint

- uses the Server Side Object Model (SSOM)
- Requires a local installation on the SharePoint server
- Supports only the SharePoint versions 2010 and 2013 (on premise)
- Is no longer supported with the 8MAN version 8.5

2. 8MATE for SharePoint with SharePoint Remote Connector

- uses the Client Side Object Model (CSOM)
- No installation on the SharePoint server is required
- Supports SharePoint versions 2010, 2013, 2016, and SharePoint Online

For the 8MATE for SharePoint you need an appropriate license. The section "Load the product license" describes how to check the license scope and, if necessary, reload a license file.

The system requirements must be fulfilled. See Chapter "SharePoint requirements".

For an overview of the required access rights, please refer to chapter "Setting up service accounts for 8MAN".

8.3.1 Installing the SharePoint Remote Connector

BMAN 8.0 Setup	_ ×	Enable the Connector.
BMAN Setup 8.0		You install
8MAN Service	<u>^</u>	installation
Server The central component in your 8MAN infastructure, which analyzes and provides the collected data		is required.
Scans your SharePoint remotely by using the client-side object mode (CSOM)	el	
Collector The decentralised data collector for the 8MAN Server		
FS Logga for Windows File Server		
Windows driver collecting data from this machine		
User Interfaces		
✓ 8MAN The solution for your access rights management		
8MAN Configuration The interface to configure 8MAN just the way you want it		
Web Components		
✓ 8MAN Web Client / Web API Web API for accessing 8MAN and web based user interface for using 8MATE GrantMA, 'Analyze and Act' and Recertification.		
Installation Folder		
C:\Program Files\Protected Networks\8MAN\		
✓ I agree to the License Terms.		
Upgrade		

nable the SharePoint Remote Connector.

You install an additional 8MAN server component. No additional installation of dedicated collectors is required.

8.3.2 Accounts for a SharePoint scan via Remote Connector

For a SharePoint scan, two accounts are to be configured:

1. "Process Account"

The "Process account" is used to execute the scan process on the selected collector. This account must have local administrative rights and interactive logon privileges on the collector.

2. "Scan Account"

The "scan account" is used for the actual scan. This account must always be the same as the owner account registered for the site collection (= primary site collection administrator). The corresponding user account is defined when a site collection is created and can only be viewed or changed via the SharePoint central administration. Navigate in the Central Administration to:

application management -> site collections -> Change site collection administrators -> Selection of the site collection -> Primary site collection administrator

If the primary site collection administrator's credentials are not accessible, other SharePoint accounts can also be used for the scan. Please contact our support team in these cases.

8.3.3 Adding a SharePoint Scan via Remote Connector

8MAN Configuration V	ersion:			_ 0	×	Add a scan configuration
Back File Server CSV Im	port				(?)	Add a scan conjigaration.
 Select a technology below to add 	a new resource configuration					
Active Directory Resource	Easy Connect - CSV Easy Connect - CSV resource	Easy Connect - SQL Easy Connect - SQL resource	Exchange Exchange Resource	File server File Server Resource		
Local Accounts	Logga - Active Directory Monitoring an Active Directory	Logga - File Server Monitoring a File Server	SharePoint ☆ Sharepoint Resource (Farm Based)	SharePoint SharePoint Site Collection		
SharePoint Online SharePoint Online Site Collection	VSphere VMware vSphere Resource				_	
L 4						
43, Filter	LOCAL SYSTEM			× ^		
	VETEM will be encoded On demond 1.1	(area)				
The resource SIAIM_LOCAL_S	rs i civi will be scanned <u>on demand</u> . [] ("	noie »)				
🖻 🕨 🔊 🕅 🕅 🖿	n-demo.onmicrosoft.com			×		
The Exchange 8man-demo.or	nmicrosoft.com will be scanned On demar	nd [] (More »)				
A				V		
🕨 🕨 🕅 http://	//intranet			^		
The resource http://intranet v	will be scanned <u>On demand</u> . [] (More »)					
De transformation de la companya de	//portal			×		
The resource http://portal.wi	II be scanned On demand. The communic	ation will be established using account 8	man-demo\sa-sp farm. Scans will be perfe	ormed using account		
8man-demo\sa-sp_farm on S	RV-8MAN . ever is not available due to maintenance, s	cans will be retried once. The delay betw	een retries is 10 minutes.	,		
The additional properties have	ve completely been configured. («Less)	_ /				
	8MAN/SOI Express			×		
		Maraw				
	conpress win be scamed <u>on demand</u> . [] (MOLE #				
🖻 🕨 srvl	JBUNTU			×		
Ready				demoadmin @ localhost	<- →-	



Specify the credentials for the "<u>*Process Account*</u>".

The account is not used to scan the SharePoint site collection. This account will be set up in a later step.

After successfully checking the "Process account", the selection of available resources opens.



- 1. If necessary, change the "Process account".
- 2. Specify the URL of the site collection. Confirm your entry with the ENTER key.

SharePoint does not provide an interface that allows 8MAN to get URLs of site collections.

- 3. Select the added entry (set the checkmark).
- 4. Select one or more collectors to perform the scan.

Collector indicator green:

A connection to the specified SharePoint URL was successful. This does not mean that all content can be completely scanned. Please refer to the information on the scan account required in the next step.

Collector indicator red:

Unable to successfully connect to the specified SharePoint URL. You can still save the settings and correct them in the following step.

You have created a new SharePoint configuration.

The warning indicates that you must <u>configure additional</u> <u>properties</u> before you can successfully perform a scan.

STOTE TO Ronniguration Ver	rsion:			
Zurück Fileserver CSV Impo	ert			(
Wählen Sie eine Technologie aus, u	m eine neue Ressourcenkonfiguration	hinzuzufügen		
Active Directory Ressource	Easy Connect - CSV Easy Connect - CSV Ressource	Easy Connect - SQL Easy Connect - SQL Ressource	Exchange Exchange Ressource	Fileserver Fileserver Ressource
Logga - Active Directory Überwachen eines Active Directory	Uberwachen eines Fileservers	Lokale Accounts	SharePoint ☆ Sharepoint Ressource (Farm Based)	SharePoint SharePoint Webseitensammlung
SharePoint Online SharePoint Online Webseitensammlung	VSphere VMware vSphere Ressource			
A Filter				13
Die Kessource http://intranet.v	wird Aut Antrage gescannt. [] ()			^
🕑 🕨 🕅 http://	portal			×
Die Ressource http://portal wit	rd <u>Auf Anfrage</u> gescannt. [] (<u>Mehr »</u>)			
	MAN\SQLExpress	Mohew		×
Die Ressource SRV-omAin(SQI	Lexpress wird <u>Aur Anfrage</u> gescannt. [] (went »		
🕒 🕨 srvue	BUNTU			×
Die Ressource SRVUBUNTU wi	ird <u>Auf Anfrage</u> gescannt. [] (Mehr »)			
🚯 🕨 🕐 http://	8home.protected-networks.com/			×
Die Ressource http://8home.pr	rotected-networks.com/ wird taglich. 01:0	0 gescannt. [] (Mehr.»)		
e http://	demo-sitecollection			×
Die Ressource http://demo-sit 8man-demo\sa-8man auf SRV Im Echlerten, Z. B. bei Nichterre A Die zusätzlichen Eigenschaf	ecollection wird <u>täglich, 01:00</u> gescannt. [<u>-8MAN</u> durchgeführt. eichbarkeit des Servers wegen Wartungsa ften wurden nicht vollständig konfiguriert	Die Kommunikation erfolgt mit der Anmel rbeiten, wird der Scan <u>einmal</u> wiederholt. . (<u>«Weniger</u>)	dung <u>8man-demo\sa-8man</u> . Scans werder Die Pause zwischen den Versuchen beträg	n mit der Anmeldung gt <u>10 Minuten</u> .
				demoadmin © localhost 🗲

8.3.4 Configuring additional properties

8MAN Configuration Ve	ersion:			-	□ ×	Click the link
Back File Server CSV Im	port				\bigcirc	Chek the mik.
 Select a technology below to add 	a new resource configuration					
Active Directory Resource	Easy Connect - CSV Easy Connect - CSV resource	Easy Connect - SQL Easy Connect - SQL resource	Exchange Exchange Resource	File server File Server Resource		
Local Accounts	Logga - Active Directory Monitoring an Active Directory	Logga - File Server Monitoring a File Server	SharePoint ☆ Sharepoint Resource (Farm Based)	SharePoint SharePoint Site Collection		
SharePoint Online SharePoint Online Site Collection	VMware vSphere Resource]				
🕰 Filter				11		
The resource SIAM_LOCAL_ST	15 LEIVI WIII DE SCANNED <u>UN DEMAND</u> , [] (1	nore »)			^	
🛃 🕨 🕨 🕅 8mar	n-demo.onmicrosoft.com			×		
The Exchange 8man-demo.or	nmicrosoft.com will be scanned <u>On demar</u>	d [] (More »)				
	//intranet			×		
The resource http://intranet v	will be scanned <u>On demand</u> . [] (More »)					
🛡 🕨 💁 🖉	8MAN\SQLExpress			×		
The resource SRV-8MAN\SQL	LExpress will be scanned <u>On demand</u> . [] (More »)			L	
SRVU	JBUNTU			×		
The resource SRVUBUNTU wi	ill be scanned <u>On demand</u> . [] (More »)					
4						
	//demo-sitecollection			×		
The resource http://demo-site	ecollection will be scanned <u>daily, 1:00 AM</u>	The communication will be established u	ising account <u>8man-demo\sa-8man</u> . Scan	s will be performed using		
In case of errors, i.e. if the ser	ver is not available due to maintenance, si have not completely peen configured. («	cans will be retried <u>once</u> . The delay betwe <u>Less</u>)	en retries is <u>10 minutes</u> .			
					Ý	
Ready				demoadmin © locali	nost 🕣 🌁	



Select the SharePoint version. To communicate with the SharePoint system, 8MAN uses Microsoft components that are specific to the version of the SharePoint system that is used. Specifying the correct SharePoint version ensures that all information is shared correctly with the SharePoint system. If the configured version of SharePoint differs from the actual version, this may result in incomplete or incorrect data. Ē

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Additional propertie

xclude Se

Reset

Exclude Limited Access

Exclude hidden lists Exclude list items 8

5

Deactivated

Activated

Deactivated

Deactivate

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Configured value

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8MAN Configu

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<u>2</u>

P

- 1. Determine how many maximum parallel requests the scan will perform. The higher the number, the higher the scanning speed and the load on the SharePoint Server. Possible values: 1 to 10
- 2. Determine how long 8MAN waits for the connection to the SharePoint Server. Possible values: 1 to 10, Recommended: 2 min

	Easy Connect - CSV Easy Connect - CSV resource	Easy Connect - SQL Easy Connect - SQL resource			
	Logga - Active Directory	Logga - File Server	SharePoint	SharePoint	
SharePoint Online Site Collection	Additional properties			×	
🕰 Filter					
	🔾 Filter			14	× ^
	Property		Configured value		
The resource SIAM_L	Maximum parallel requests	4 4 🕨		^	
	Connection timeout (minutes)	< 1 ▶			
	▲ Scan-Filter				
	Exclude Administrators	Deactivated			
The Exchange 8man-	Exclude Owner	Deactivated 2			
53	Exclude Secondary Contact	Deactivated			
	Exclude Limited Access				
	Exclude hidden lists				
The resource http://i	Exclude list items	Deactivated			
	Disconstinueshold	2,000			
	Datailed leasing				×
	Detailed logging	Deotrivoleo		×.	
The resource http://p 8man_demo\sa_sp_fr				ccount	
In case of errors, i.e.	Reset		Apply	Discard	
The additional prope					
					×
- X.X -					

Option enabled: 8MAN excludes administrators from the scan. They are not

2. Option enabled:

nin @ localhost 🕣 🏼 🏧

8MAN excludes owner from the scan. They are not available in views and reports. This option is not effective for SharePoint 2010. Microsoft does not provide the information about the owner in this release.

available in views and reports.



1. Option enabled:

8MAN excludes secondary contacts from the scan. They are not available in views and reports.

The secondary contact is optional in SharePoint. The option is ineffective if no secondary contact is entered. This option is not effective for SharePoint 2010. Microsoft does not provide the secondary contact information in this release.



1. Option enabled: 8MAN excludes the limited access from the scan. This information is not available in views and reports. Limited access is automatically granted by the SharePoint system to a large extent, ensuring that SharePoint users can navigate through the system.

2. Option enabled: 8MAN excludes hidden lists from the scan. They are not available in views and reports.

8MAN Configuration	Version:				_
Back File Server CS					
 Select a technology below to a 	idd a new resource configuration	- Englopment SOL			
Active Directory Resource	Easy Connect - CSV resource	Easy Connect - SQL resource			
Local Accounts	Logga - Active Directory Monitoring an Active Directory	Hogga - File Server Monitoring a File Server	SharePoint	SharePoint SharePoint Site Collection	
SharePoint Online					
	Additional properties			×	
A Filter					
	🕰 Filter			14	XA
	Property		Configured value		
The resource SIAM_L	Maximum parallel requests	< 4 ▶		^	
	Connection timeout (minutes)	< 1 ▶			
	↑ Scan-Filter				~
The Evchange 9man	Exclude Administrators	Deactivated			
The Exchange offan	Exclude Owner				
	Exclude Limited Access	Activated			×
	Exclude hidden lists	Deactivated			
The resource http://i	Exclude list items	Deactivated			
	List view threshold	▲ 2,000 ▶ 2			
	 Diagnostic settings 				×
	Detailed logging	Deactivated			
The resource http://; <u>8man-demo\sa-sp_fi</u> In case of errors, i.e. The <u>additional prope</u>	Reset		Apply Disc	ccount	
	RV-8MAN\SQLExpress				×
The resource SKV-8MAIN					
E 🕨 si	RVUBUNTU				×
Ready				demoadmin @	localhost 🕣 🎴

1. Option enabled: 8MAN excludes list in

8MAN excludes list items from the scan. They are not available in views and reports.

2. With the threshold value for reading list elements, you determine how many list elements are read at maximum.

	Easy Connect - CSV resource	Easy Connect - SQL Easy Connect - SQL resource		
	Logga - Active Directory Monitoring an Active Directory	Logga - File Server Monitoring a File Server	SharePoint	SharePoint SharePoint Site Collection
harePoint Online harePoint Online Site Collection	VMware vSphere Resource			
	Additional properties			×
🕰 Filter				11
	A Filter			14 ×
	Property		Configured value	
The resource SIAM_L	Maximum parallel requests	4 4 >		^
R.	Connection timeout (minutes)	< 1 ▶		
	↑ Scan-Filter			×
	Exclude Administrators	Deactivated		
The Exchange 8man-	Exclude Owner	Deactivated		
53	Exclude Secondary Contact	Deactivated		
	Exclude Limited Access	Activated		×
	Exclude hidden lists	Deactivated		
The resource http://i	Exclude list items	Deactivated		
-	List view threshold	1 2,000 ▶		
	 Diagnostic settings 			×
××	Detailed logging	Deactivated		
The resource http://s 8man-demo\sa-sp_fi In case of errors, i.e. The additional prope	Reset		Apply Disca	rd ccount
	RV-8MAN\SQLExpress			×
The resource SRV-8MAN	SQLExpress will be scanned On demand.			

Enable the option for extended error analysis only.

If this option is enabled, the scan speed will slow down and the size of the log file of the 8MAN server will increase faster.

8.3.5 Customizing a SharePoint scan configuration

8MAN Configuration Ver	rsion:			-	
Back File Server CSV Impo	ert .				
Select a technology below to add a Domain Active Directory Resource	Easy Connect - CSV Easy Connect - CSV	Easy Connect - SQL Easy Connect - SQL resource	Exchange Exchange Resource	File server File Server Resource	
Local Accounts	Logga - Active Directory Monitoring an Active Directory	Logga - File Server Monitoring a File Server	SharePoint ☆ Sharepoint Resource (Farm Based)	SharePoint SharePoint Site Collection	
SharePoint Online SharePoint Online Site Collection	VSphere VMware vSphere Resource				
C Filter	STEM WILLDE SCANNED <u>UN GEMANG</u> , [] (<u>M</u>	1018 <i>*)</i>			11
The Exchange 8man-demo.onr	demo.onmicrosoft.com microsoft.com will be scanned <u>On demar</u>	<u>id</u> [] (<u>More »</u>)		;	×
The resource http://intranet wi	intranet ill be scanned <u>Qn demand</u> , [] (More »)			;	×
B K SRV-BY	MAN\SQLExpress Express will be scanned <u>On demand</u> . [] (More »)		;	×
The resource SRVUBUNTU will	BUNTU be scanned <u>On demand</u> , [] (<u>More</u> »)			;	×
The resource http://demo-sites account sman-demosal-email In case of errors. If the sarry The additional produces have	demo-sitecollection 2 collection will be scanner daily.1:00 AM in SRV-8MAN. in site daily to maintenance, si complet been configured. («Less)	he communication will be established u cans will be retried <u>once</u> . The delay betwe	3 sing accoun <mark>(Sman-demo\sa-8man) i</mark> can en retries is <u>10 minutes</u> .	s will be performed using	×
-adv				demoadmin @ loc	alhost ←

- 1. Change the SharePoint Scan configuration name.
 - 2. Change scheduling for scanning.
 - 3. Change the "<u>Process Account</u>".
 - 4. Change the "<u>Scan Account</u>".
 - 5. Change the collector that runs the scan.

8.4 SharePoint change configuration

BMAN Configuration Version:					× /
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	Common Chang Set up technology-indep	ge Settings endent configurations fo	r change actions		(
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	Authorization 8MAN administrator autorization for changes with 8MAN	Scripting configuration for change actions			
	Technology-spe Set up change configurat	cific Change Co	onfigurations technology		
	~		Ģ	☆	
	Active Directory Basic change configuration for Active Directory domains	Exchange Exchange mailbox specific change configurations	File server File server specific change configurations and Group Wizard settings	SharePoint Sharepoint Resource (Farm Based)	
	SharePoint SharePoint StearePoint StearePo	SharePoint Online SharePoint Online Ste Collection			
Ready					demoadmin 🕲 localhost 🗲 🏾 📥

In the 8MAN configuration, navigate to "Change Configuration" -> "SharePoint".

You must have run at least one SharePoint scan to create a change configuration.

Adding a SharePoint change configuration





Modify a SharePoint change configuration

8MAN Configuration Vers	sion:		×
Back			
^ 8MAN says!	Configuration		
Access Category Tag Here you can configure access categories that will be used when modifying access rights in 8MAN. Enabled categories you will find in the "Modify access rights" represented by columns or rows. There you can easily change the access rights of users and groups via drag and drop. For each category you can also define. • which indicates should be added to the default names of related BMAN groups • whether administrators sen use it in BMAN. Resources SharePoint • they/Intranet	Change Configuration http://ntranet Basic Settings Credential for changes Septional: Credential for changes Septional: Credential for changes Septional: Categories Categories Category		×
Ready	demoadmin © loc	alhost \in	1 🗠

- 1. Specify which credentials are used to make changes to the SharePoint resource. If you do not specify any, the 8MAN users are prompted for each change.
- 2. Determine which access categories are available for 8MAN users to change access rights. Define a set for 8MAN administrators and another for all 8MAN modify user roles (See also: 8MAN user management).

Delete a SharePoint Change configuration

BMAN Configuration Ver	sion: X	1.	Delete a SharePo
^ 8MAN says!	Configuration		conjigarationi
ORAN says! Access Category Tag Here you can configure access categories that will be used when modifying access inghts in 8MAK. Enabled categories you will find in the "Modify access rights" represented by columns or row. There you can easily change the access rights or 8MaK and the same access rights of MaKA groups whether administrators are will as all and access all and access all and access all and access and access and access all and acces all and access all a	Configuration http://intraret Basic Settings Credential for changes Soptionals Access Category Administrator Approve Contribute Design Fact Control F		
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oint change

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