

Extended IBM Traveler Administration

bzw.

Nach Feierabend gehören Papa und Mama mir!

Detlev Pöttgen
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Detlev Pöttgen



midpoints GmbH

<http://www.midpoints.de>

We mobilize Notes!

IBM Advanced Business Partner

IBM Design Partner for Domino Next & Mobile

Apple Enterprise Developer & MDM Group Member

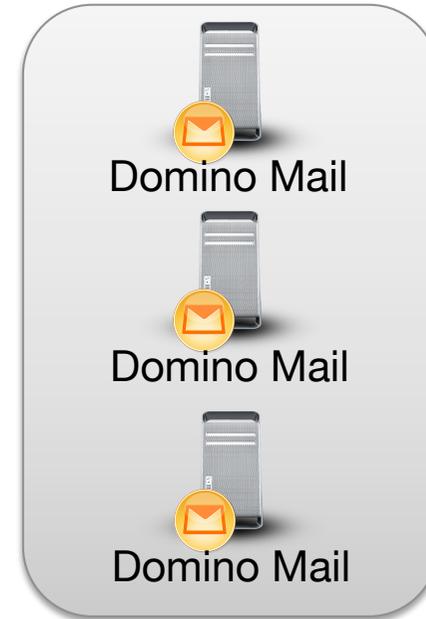
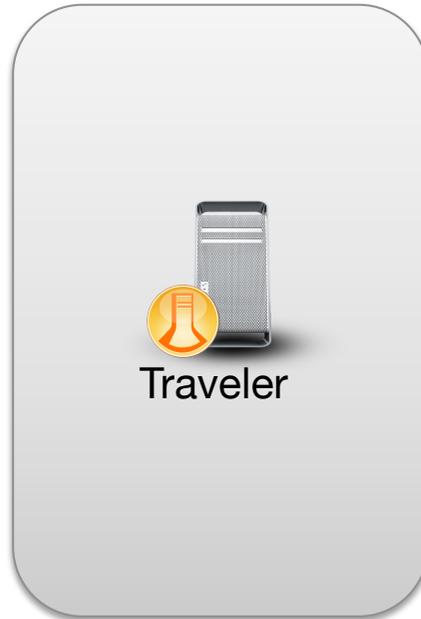
Samsung Enterprise Alliance Partner

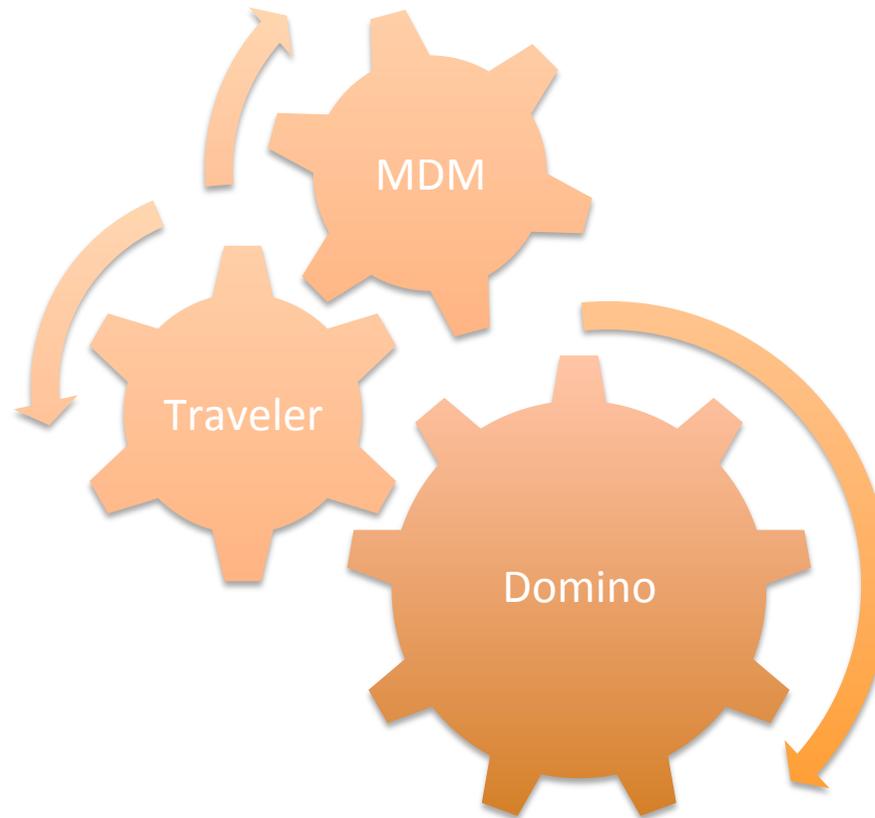
Schwerpunkte:

- Enterprise Mobility
 - Mobile Device & Application Management
- IBM Notes Traveler & IBM Mobile Connect
 - Infrastrukturplanung & Implementierung

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traveler.rules

Solution to extend IBM Notes
Traveler Security, Monitoring and
Administration for First & Second
Level Support



doc.Store

Domino based secure File &
Content Sharing solution for
Notes Client and Mobile
Devices



mobile.profiler

Domino based Mobile Device &
Application Management
solution (MDM & MAM)
for Apple & Android



Traveler



Domino Mail

Domino Mail

Domino Mail



traveler.rules



doc.Store



mobile.profiler

- First Level / Delegierter Traveler Support
- Extended Security
 - Persistentes Regelwerk zur Gerätefreigabe
 - MDM Integration
- Monitoring
 - Traveler Server Status Monitoring
- Time Control
 - Wer darf wann Traveler verwenden?



- Traveler bietet keine „Mandanten“-fähige oder Rollen basierte Administration.
 - **Jeder sieht alles in der LotusTraveler.nsf**
 - Soll jemand Traveler spezifische Aktionen ausführen (Device sperren, wipen oder eine Sperre zurücknehmen) werden **Konsolenberechtigungen benötigt.**
 - Ein Wipe sollte schnellst möglich ausgeführt werden können. **Am besten direkt vom Helpdesk. Somit braucht jeder Helpdesk-Mitarbeiter Konsolenberechtigungen.**
 - Will ich das?



- Dies Thema wurde in fast jedem unserer Traveler Projekte angesprochen und es wurde ein Lösung benötigt.
- Unsere Lösung traveler.rules
 - erweitert die Traveler Administration
 - macht eine zentrale Traveler Installation „Mandanten“-fähig macht
 - ermöglicht eine Rollen basierte Administration



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Tools Black-/Whitelist Actions High availability actions

New devices

All devices

- by user
- by hierarchy
- by os
- by client version
- by mail server
- by id
- by rule
- by administrator
- by Traveler server
- by type
- All VIP users

User	New	Flag	Status	VIP	Bound	Type	TC	B/W	Access	Device Name	Client Versi	Connection Sta
node2.netzgoetter.net/srv/netzgoetter (4)												
Apple (2)												
Detlev Poettgen/hq/netzgoetter									Allow	Apple-iPhone8C1	Divers	Disconnected
Test User/netzgoetter									Allow	iPhone 6s	Divers	Disconnected
WinPC (2)												
Detlev Poettgen/hq/netzgoetter									Deny	WinPC	Divers	Disconnected
Detlev Poettgen/hq/netzgoetter		★							Deny	WinPC	Divers	Disconnected
POOL1 (5)												
Apple (4)												
Detlev Poettgen/hq/netzgoetter									Allow	Apple-iPhone8C1	Divers	Disconnected
Detlev Poettgen/hq/netzgoetter									Allow	Schwarz iPad mini	Divers	Disconnected
Zeus Netzgoetter/netzgoetter		★							Allow	iPhone 6	Divers	Disconnected
Zeus Netzgoetter/netzgoetter		★							Allow	Schwarz iPad mini	Divers	Disconnected
Outlook-iOS-Android (1)												
Test 1 Account/demo/netzgoetter									Allow	Outlook-iOS-Android	Divers	Disconnected



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Tools Black-/Whitelist Actions High availability actions

User

- node2.netzgoetter.net/srv/...
- Apple (2)
 - Detlev Poettgen/hq/netzgoetter
 - Test User/netzgoetter
- WinPC (2)
 - Detlev Poettgen/hq/netzgoetter
 - Detlev Poettgen/hq/netzgoetter
- POOL1 (5)
 - Apple (4)
 - Detlev Poettgen/hq/netzgoetter
 - Detlev Poettgen/hq/netzgoetter
 - Zeus Netzgoetter/netzgoetter
 - Zeus Netzgoetter/netzgoetter
 - Outlook-iOS-Android (1)
 - Test 1 Account/demo/netzgoetter

New devices

All devices

- by user
- by hierarchy
- by os
- by client version
- by mail server
- by id
- by rule
- by administrator
- by Traveler server
- by type
- All VIP users

TC B/W Access ^ Device Name Client Versi Connection State

TC	B/W	Access ^	Device Name	Client Versi	Connection State
		Allow	Apple-iPhone8C1	Divers	Disconnected
18		Allow	iPhone 6s	Divers	Disconnected
		Deny	WinPC	Divers	Disconnected
		Deny	WinPC	Divers	Disconnected
		Allow	Apple-iPhone8C1	Divers	Disconnected
		Allow	Schwarz iPad mini	Divers	Disconnected
18		Allow	iPhone 6	Divers	Disconnected
18		Allow	Schwarz iPad mini	Divers	Disconnected
		Allow	Outlook-iOS-Android	Divers	Disconnected

Context menu actions:

- Show current user/device status
- Update device
- Edit rule
- Perform initial sync (reset)
- Delete device security (delete security)
- Delete device data (delete)
- Synchronize device (primesync)
- Stop running synchronisation (stopsync)
- Deny device (deny)
- Wipe device (wipe)
- Remove wipe / grant access



Close Black-/Whitelist Actions High availability actions Open mail database



Device: Outlook-iOS-Android

IBM Traveler has validated that it can access the database mail/test-account-1.nsf.
Monitoring of the database for changes is disabled.
Encrypting, decrypting and signing messages are disabled because the Notes ID is not in the mail file or the ID vault.

Basics		User and device status	
Username:	Test 1 Account/demo/netzgoetter	VIP user:	Yes
Type:	Company	Traveler-Server:	node1.netzgoetter.net/srv/netzgoetter
Devicename:	Outlook-iOS-Android	Server version:	17
Device ID:	EC1D4B69D4B9ED79	Traveler Server Pool:	POOL1
Connection state:	Disconnected	User bound:	No
Last sync time:	So. 01.02.2015 13:05:01:00	User bound until:	2016-09-20 10:13:12.224 (Type Soft)
Created:	Mo. 15.08.2016 14:52:22:62	Home mail server:	node1.netzgoetter.net/srv/netzgoetter
Sync type:	ActiveSync	Home mail file:	mail/test-account-1.nsf
OS type:	Outlook-iOS-Android/1.0	Auto sync device state:	
Build level:		Auto sync connection state:	
		Auto sync applications:	
		Auto sync change flags:	
Device security		User and device status	
Security Policy Compliance:	No policy Details	Last status request:	20.09.2016 10:05:23 CEDT
Access:	Allow	User and device status:	IBM Traveler has validated that it can access the database mail/test-account-1.nsf. Monitoring of the database for changes is disabled. Encrypting, decrypting and signing messages are disabled because the Notes ID is not in the mail file or the ID vault.
Wipe options:	None		
Wipe status:			
Action date:			



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traveler.rules 3.0.0 Detlev Poettgen

Neue Geräte

Alle Geräte

Weitere Ansichten

Regeln

Zeitsteuerung

Nachrichten

Administration

Aktualisieren Tools Black-/Whitelist **Aktionen** High Availability Aktionen

<input type="checkbox"/>	User	Home Mail-Server	Flag	New	Stat..	VIP User	Bo
<input type="checkbox"/>	Detlev Poettgen/hq/netzgoetter	lorien/srv/netzgoetter					
<input type="checkbox"/>	Detlev Poettgen/hq/netzgoetter	lorien/srv/netzgoetter					
<input type="checkbox"/>	Test User/netzgoetter	lorien/srv/netzgoetter					
<input checked="" type="checkbox"/>	Detlev Poettgen/hq/netzgoetter	lorien/srv/netzgoetter					
<input checked="" type="checkbox"/>	Test 1 Account/demo/netzgoetter	node1.netzgoetter				VIP	
<input type="checkbox"/>	Detlev Poettgen/hq/netzgoetter	lorien/srv/netzgoetter					
<input type="checkbox"/>	Zeus Netzgoetter/netzgoetter	lorien/srv/netzgoetter		POOL1			
<input type="checkbox"/>	Detlev Poettgen/hq/netzgoetter	lorien/srv/netzgoetter		POOL1			
<input type="checkbox"/>	Zeus Netzgoetter/netzgoetter	lorien/srv/netzgoetter		POOL1			
Gesamt: 9							

- Aktuellen User- / Gerätestatus abfragen
- Device-Dokument aktualisieren
- Regel bearbeiten
- Initialsynchronisation durchführen (reset)
- Devisicherheit löschen (delete security)
- Devicedaten löschen (delete)**
- Device synchronisieren (primesync)
- Laufende Synchronisation stoppen (stopsync)
- Device-Zugriff verbieten (deny)
- Device löschen (wipe)
- Löschung / Sperre widerrufen



- Die Traveler Zugriffssteuerung ist User-basiert.
- Über eine Gruppe, die im Domino Server Dokument des Traveler Servers hinterlegt ist, wird gesteuert wer Traveler benutzen kann.
- Dies ist in vielen Kundensituationen nicht ausreichend.
- Es gibt keine praktikable Möglichkeit gezielt nur bestimmte Devices für die Verwendung von Traveler freizugeben.



- Generell verbieten wir alle Devices und erlauben anhand von White-List-Regeln den Traveler-Zugriff.
- Berechtigungsebenen

Notes User | Device | Devicetyp

- So ist es möglich:
 - Frank Mustermann mit seinem Dienst-iPad freizugeben
 - Frank Mustermann mit seinem privat iPhone zu sperren



- Registriert sich ein neues Gerät und verstößt gegen eine Regel, kann automatisch
 - das Gerät gesperrt
 - eine Mail an einen definierten Administrator geschickt
 - das Gerät direkt ge-wipedwerden. Dies geschieht in Realtime.



traveler.rules		New rule	Delete	Start MDM synchronization	FF	User ^	Device ^	OS ^	Action
 v 3.0.0 node2.netzgoetter.net License 9 / 20 Modul license 0 / 20									
<ul style="list-style-type: none"> New devices All devices More views Rules <ul style="list-style-type: none"> All Rules Blacklist only Whitelist only Time Control 									
		<div>Default (Blacklist)</div> <ul style="list-style-type: none"> Blacklist <ul style="list-style-type: none"> Detlev Poettgen/hq/netzgoetter (Device: 41D775A692B78120E2E67058F22EFD09) Detlev Poettgen/hq/netzgoetter (Device: F118A989306D7E67EFECCC6FC7E35482) Whitelist <ul style="list-style-type: none"> Benjamin Gaisser/midpoints/de (Device: 4453452345234) Detlev Poettgen (Device: M4A13FE6T57EH7H31TFK3GR7J8, OS: Apple) Detlev Poettgen/hq/netzgoetter (Device: M4A13FE6T57EH7H31TFK3GR7J8, OS: Apple iPad) Frank Meier (Device: 56456456) Katrin Brune (Device: ApplEA3D5G789012) Test 1 Account/demo/netzgoetter (Device: EC1D4869D489ED79) test it (Device: 3VFUMEC1I510NERO1OQT4MJOVC) Test User/netzgoetter (Device: Appl012345012345) Volker Weber (Device: Appl012345012345) Zeus Netzgoetter/netzgoetter (Device: ApplF4KJQ456F19J) 							





Device rule

Generated by: manually

Device rule

- Type:** Blacklist Whitelist
- Status:** enabled disabled
- Is default:** yes no
- Options:** Add next device automatically

Settings

- Type:** Company
- Level:** User Device Device OS
- User:** Detlev Poettgen
- Device OS:** Apple

Comment

Comment:

Log

Assigned administrators:

Last editor: Detlev Poettgen/midpoints

Last matching :

User	Mail-Server	New	Flag	TC	B/W	OS	Client Versi	Device Name	Connection State	Auto Sync Type	Last Sync Time
Detlev Poettgen/hq/netzgoetter	lorien				📶	Apple	Divers	Apple-iPhone8C1	Disconnected	ActiveSync	24.06.2016 16:10:45 CEDT
Detlev Poettgen/hq/netzgoetter	lorien				📶	Apple	Divers	Apple-iPhone8C1	Disconnected	ActiveSync	23.06.2016 18:04:08



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High availability actions

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New devices

All devices

More views

- All users
- All VIP user
- All bound users
- Traveler server status

Rules

Traveler-Server	Type	Poolname	Alive	Server	Servlet	Heartbeat	Available	AI	# Users	# Device	Build level
node1.netzgoetter.net/ srv/netzgoetter	High Availability	POOL1	✓	✓	✗	2016-09-20 09:39:38.099	✓	100	2	4	9.0.1.13.
node2.netzgoetter.net/ srv/netzgoetter	Standalone		✓	✗	✗	2016-09-20 09:40:36.241	✓	100	2	4	9.0.1.13.

Traveler environment

Traveler server: node1.netzgoetter.net/srv/netzgoetter

Traveler server type: High Availability

HA poolname: POOL1

HA information

Server ID: 50

Hostname: node1.netzgoetter.net

IP:Port: 81.169.154.154 : 50125 / 50126

Heartbeat: 2016-09-20 09:43:53.427

Availability index: 100

Alive: Yes

Reachability Server: Yes

Reachability Servlet: No

Build level: 9.0.1.13.201608121241_40

Users: 2

Devices: 4

Status: yellow

FormFieldLastStartup: 2016-09-20 09:22:03.709

FormFieldDbSchema: 34

FormFieldNotification

FormMailInfoOnStatusChange: yes no

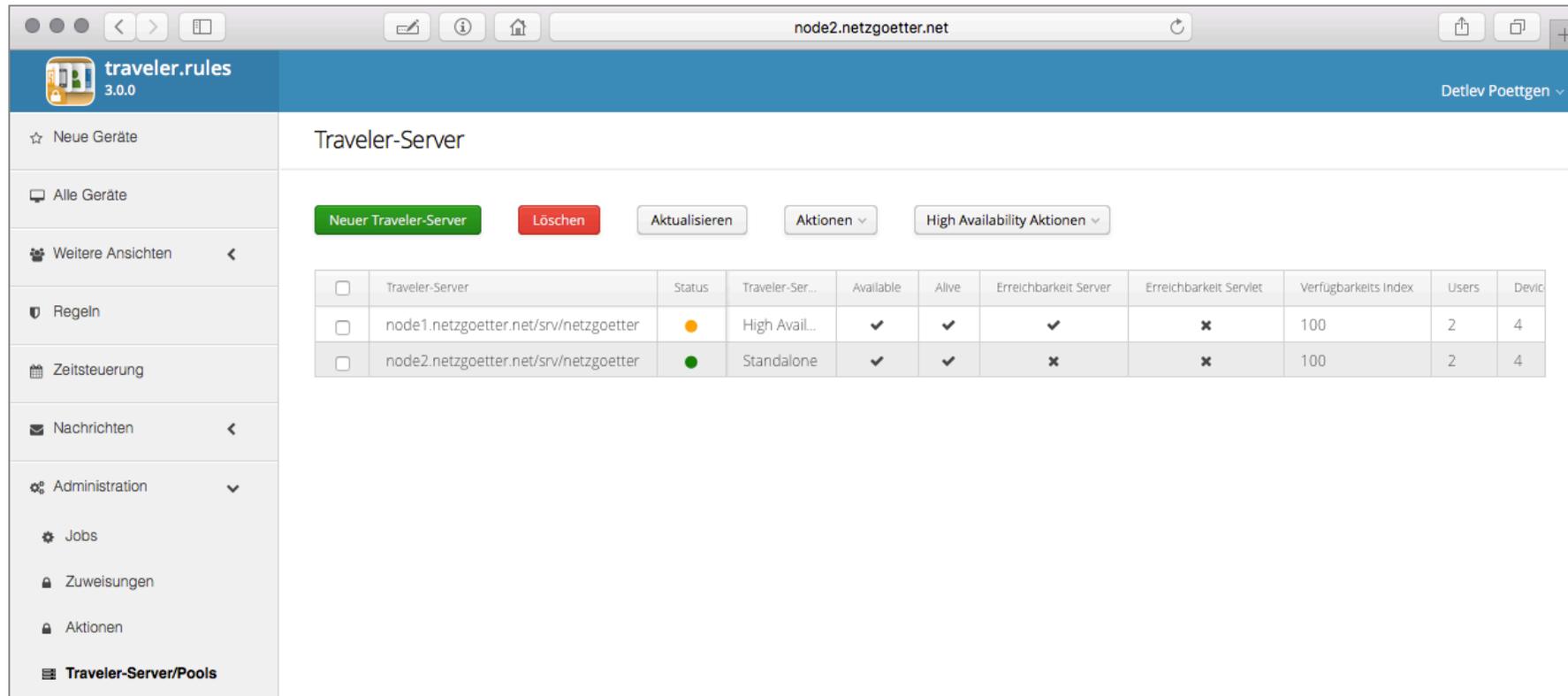
Traveler status | Traveler statistic | Traveler memory | Traveler usage statistic | Traveler configuration

FormFieldStatusMsgDateTime: 01.09.2016 15:38

FormFieldStatusMsg:
The IBM Traveler task has been running since Thu Sep 01 15:35:47 CEST 2016.
The IBM Traveler availability index is currently 100 while servicing 2 users.
There have been no successful device syncs since IBM Traveler was started.

Yellow Status Messages
Disk space for C:\Progs\Domino\data has 7 gigabytes free that is less than the threshold of 10.





The screenshot shows the 'Traveler-Server' monitoring page in the Traveler.rules 3.0.0 application. The interface includes a sidebar with navigation options and a main content area with a table of server status.

Navigation Sidebar:

- Neue Geräte
- Alle Geräte
- Weitere Ansichten
- Regeln
- Zeitsteuerung
- Nachrichten
- Administration
 - Jobs
 - Zuweisungen
 - Aktionen
- Traveler-Server/Pool**

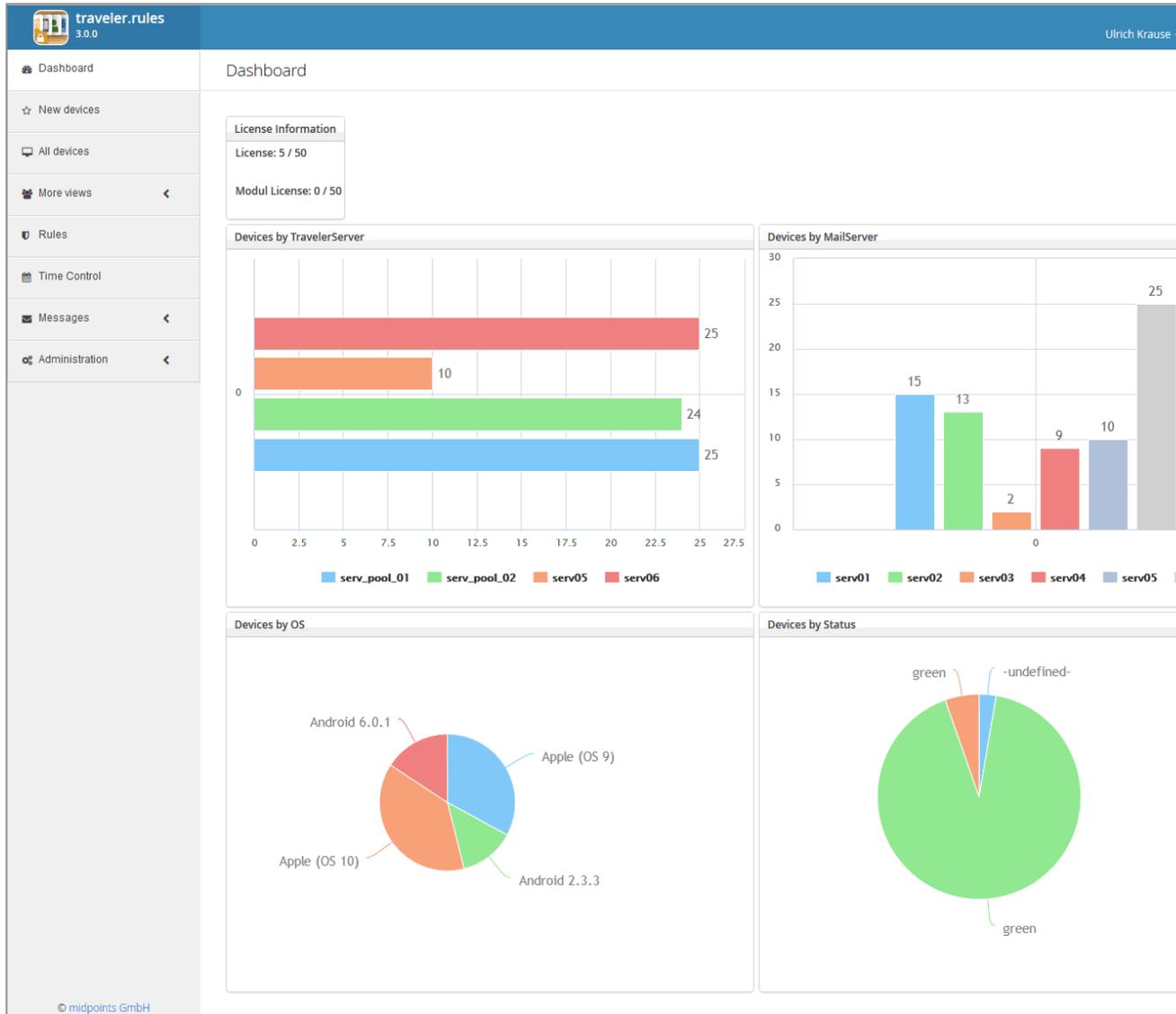
Traveler-Server Action Buttons:

- Neuer Traveler-Server
- Löschen
- Aktualisieren
- Aktionen
- High Availability Aktionen

Server Status Table:

<input type="checkbox"/>	Traveler-Server	Status	Traveler-Ser...	Available	Allve	Erreichbarkeit Server	Erreichbarkeit Servlet	Verfügbarkeits Index	Users	Devic
<input type="checkbox"/>	node1.netzgoetter.net/srv/netzgoetter	●	High Avail...	✓	✓	✓	✗	100	2	4
<input type="checkbox"/>	node2.netzgoetter.net/srv/netzgoetter	●	Standalone	✓	✓	✗	✗	100	2	4





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High availability actions



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User	Status	VIP	Bound	TC	Mail server
Detlev Poettgen/hq/netzgoetter					lorien/srv/netzgoetter
Detlev Poettgen/hq/netzgoetter					lorien/srv/netzgoetter
Test 1 Account/demo/netzgoetter	●	⚠			node1.netzgoetter.net/srv/netzgoetter
Test User/netzgoetter					lorien/srv/netzgoetter
Zeus Netzgoetter/netzgoetter					lorien/srv/netzgoetter
Zeus Netzgoetter/netzgoetter					lorien/srv/netzgoetter

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User	New	Flag	Status	VIP	Bound	Type	TC	B/W	Access	Device Name	Client Versi	Last Sync Time
lorien/srv/netzgoetter (8)												
Apple (6)												
WinPC (2)												
node1.netzgoetter.net/srv/netzgoetter (1)												
Outlook-iOS-Android (1)												
Test 1 Account/demo/netzgoetter			●	⚠					Allow	Outlook-iOS-Android Divers		01.02.2015 13:05:01

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User	New	Flag	Status	VIP	Bound	Type	TC	B/W	Access	Device Name	Client Versi	Last Sync Time
lorien/srv/netzgoetter (8)												
Apple (6)												
WinPC (2)												
node1.netzgoetter.net/srv/netzgoetter (1)												
Outlook-iOS-Android (1)												
Test 1 Account/demo/netzgoetter			●	⚠					Allow	Outlook-iOS-Android Divers		01.02.2015 13:05:01





Nach Feierabend gehören Papa und Mama mir!

Das Recht auf nicht Erreichbarkeit!

Volkswagen und Daimler machen es vor - aber wie?



traveler.rules		New Time Control		Delete										
v 3.0.0 node2.netzgoetter.net License 9 / 20 Modul license 0 / 20		Description	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Date From	Date To	Time From	Time To	Assigned To
<ul style="list-style-type: none"> New devices All devices More views Rules Time Control <ul style="list-style-type: none"> by Category Messages 		Feiertag												
		Bank Holiday												
		Silvester								31.12.2016		12:00	23:59	TestGroupDeny6
		Tag der Deutschen Einheit								03.10.2016				TestGroupDeny4
		Kernzeit												
		Time Account												
		Tarifmitarbeiter A	xxx	xxx	xxx	xxx	xxx	---	---			17:00	23:59	TestGroupDeny2
		Teilzeit	xxx	xxx	xxx	xxx	xxx	---	---			09:00	11:00	TestGroupDeny2
		Urlaub												
		Vacation												
		Kurzurlaub								30.06.2016	03.07.2016			TestGroupDeny5
		Permant Urlaub über OutOfOffice								27.06.2016	29.06.2016			TestGroupDeny5
		Wochenende												
		Time Account												
		Wochenende Tarifmitarbeiter	---	---	---	---	---	xxx	xxx					LocalDomainAdmins



Close Edit



Time Control

Time Control

Category: Kernzeit

Description: Teilzeit

Type: Time Account Bank Holiday Vacation

Businessdays: Mon Tue Wed Thu Fri Sat Sun

Blocked: All Day Specific hours

from / to: 09:00 11:00

Assigned to: TestGroupDeny2

Access

Additional Readers:

User	Mail-Server	New	Flag	Status	VIP	Bound	Type	TC	B/W	Access	OS	Client Versi	Device Name	Auto Sync Type	Last Sync Time
Test User/netzgoetter	lorien									Allow	Apple	Divers	iPhone 6s	ActiveSync	24.06.2016 17:24:46 CEDT
Zeus Netzgoetter/netzgoetter	lorien	★								Allow	Apple	Divers	iPhone 6	ActiveSync	15.06.2015 14:08:07
Zeus Netzgoetter/netzgoetter	lorien	★								Allow	Apple	Divers	Schwarz iPad mini	ActiveSync	16.06.2015 16:01:11



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New devices

All devices

- by user
- by hierarchy
- by os
- by client version
- by mail server
- by id
- by rule
- by administrator
- by Traveler server
- by type
- All VIP users

More views

Rules

User	Mail-Server	New	Flag	Status	VIP	Bound	Type	TC	B/W	Access ^	OS	Client Versi
Detlev Poettgen/hq/netzgoetter	lorien									Deny	WinPC	Divers
Detlev Poettgen/hq/netzgoetter	lorien									Allow	Apple	Divers
Detlev Poettgen/hq/netzgoetter	lorien									Allow	Apple	Divers
Detlev Poettgen/hq/netzgoetter	lorien									Allow	Apple	Divers
Detlev Poettgen/hq/netzgoetter	lorien		★							Deny	WinPC	Divers
Test 1 Account/demo/netzgoetter	node1.netzgoetter.net			🟢	🟡					Allow	Outlook-iOS-Android	Divers
✓ Test User/netzgoetter	lorien									Allow	Apple	Divers
✓ Zeus Netzgoetter/netzgoetter	lorien		★							Allow	Apple	Divers
✓ Zeus Netzgoetter/netzgoetter	lorien		★							Allow	Apple	Divers





traveler.rules

Solution to extend IBM Notes
Traveler Security, Monitoring and
Administration for First & Second
Level Support



doc.Store

Domino based secure File &
Content Sharing solution for
Notes Client and Mobile
Devices



mobile.profiler

Domino based Mobile Device &
Application Management
solution (MDM & MAM)
for Apple & Android

Vielen Dank!



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