

IBM Software

# Lotusphere2011

24 mars 2011 - Bois-Colombes

## T10 - Réussir le déploiement de Lotus Traveler

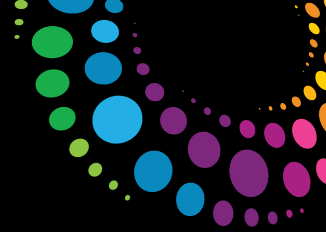


A screenshot of a LinkedIn profile for David Dyen. The profile includes a name, title, company, and location. It also shows a status update and contact information.

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Client Technical Professional -  
Lotus Software, IBM  
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Office

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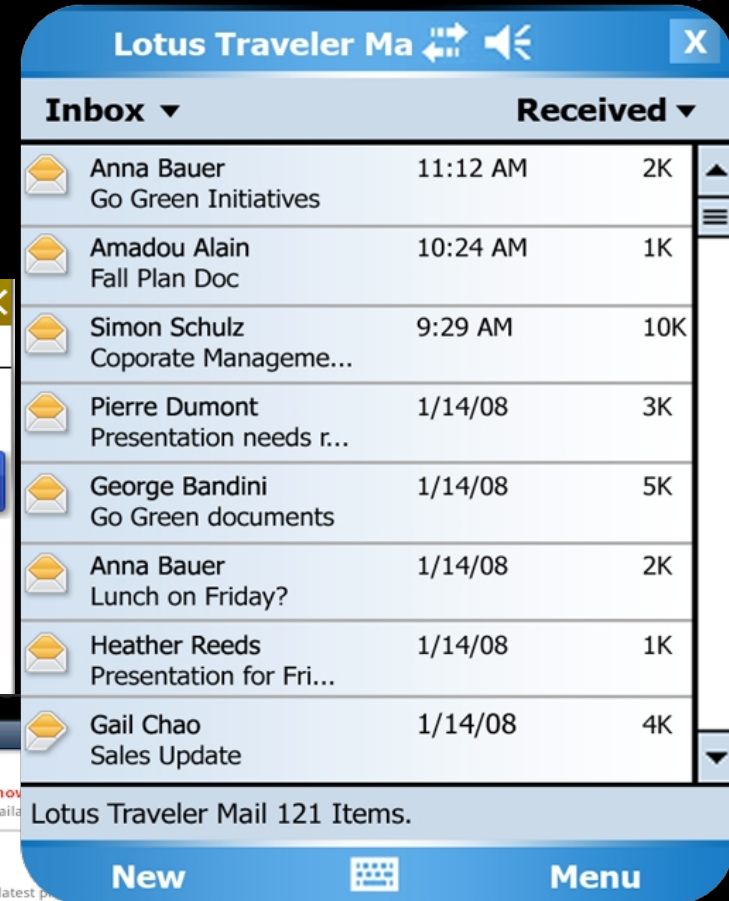
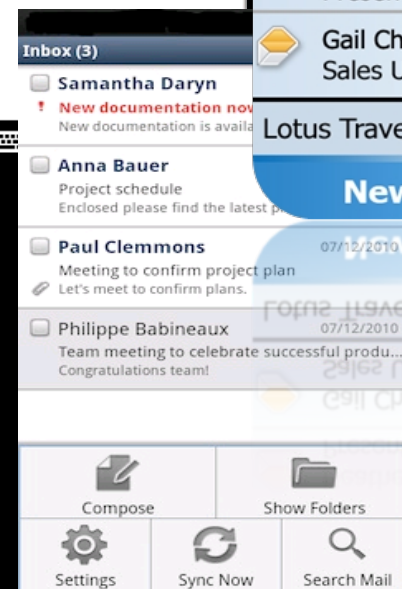
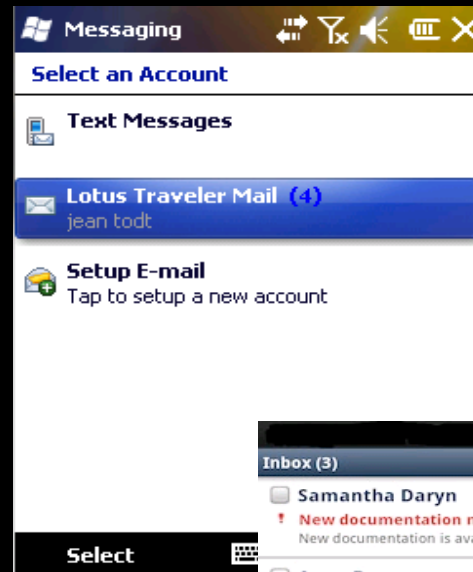
# Agenda

- Lotus Traveler : vue d'ensemble et pré-requis
- Quoi de neuf depuis Lotusphere 2010 ?
- Topologies réseau
- Installation, sécurité et administration des terminaux
- “Best practises”
- “Top requirements”



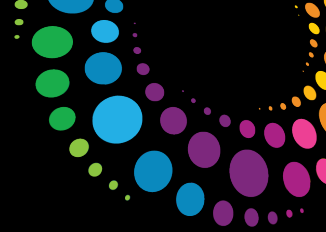
# Fonctions de Lotus Traveler

- Synchronisation bi directionnelle
  - Email (avec attachements)
  - Agenda
  - Carnet d'adresses
  - Journal<sup>1</sup>
  - Tâches<sup>1</sup>
- Installation à la volée
- Support des dossiers
- Alertes personnalisables
- Mail cryptés<sup>1 2</sup>
- Administration et suivi par politiques<sup>1 2</sup>
- Verrouillage<sup>1 2</sup> et vidage du terminal
- Intégré à Lotus Domino
- Ce n'est qu'un terminal mobile ;-)
- Known limitations : [http://www-10.lotus.com/ldd/dominowiki.nsf/dx/Known\\_limitations\\_and\\_restrictions\\_LNT852](http://www-10.lotus.com/ldd/dominowiki.nsf/dx/Known_limitations_and_restrictions_LNT852)



<sup>1</sup> Windows Mobile et Nokia  
<sup>2</sup> Supporté sur Nokia depuis 8.5

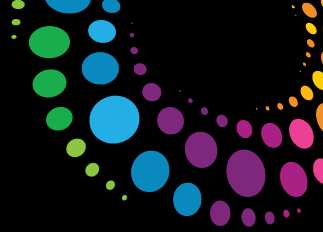




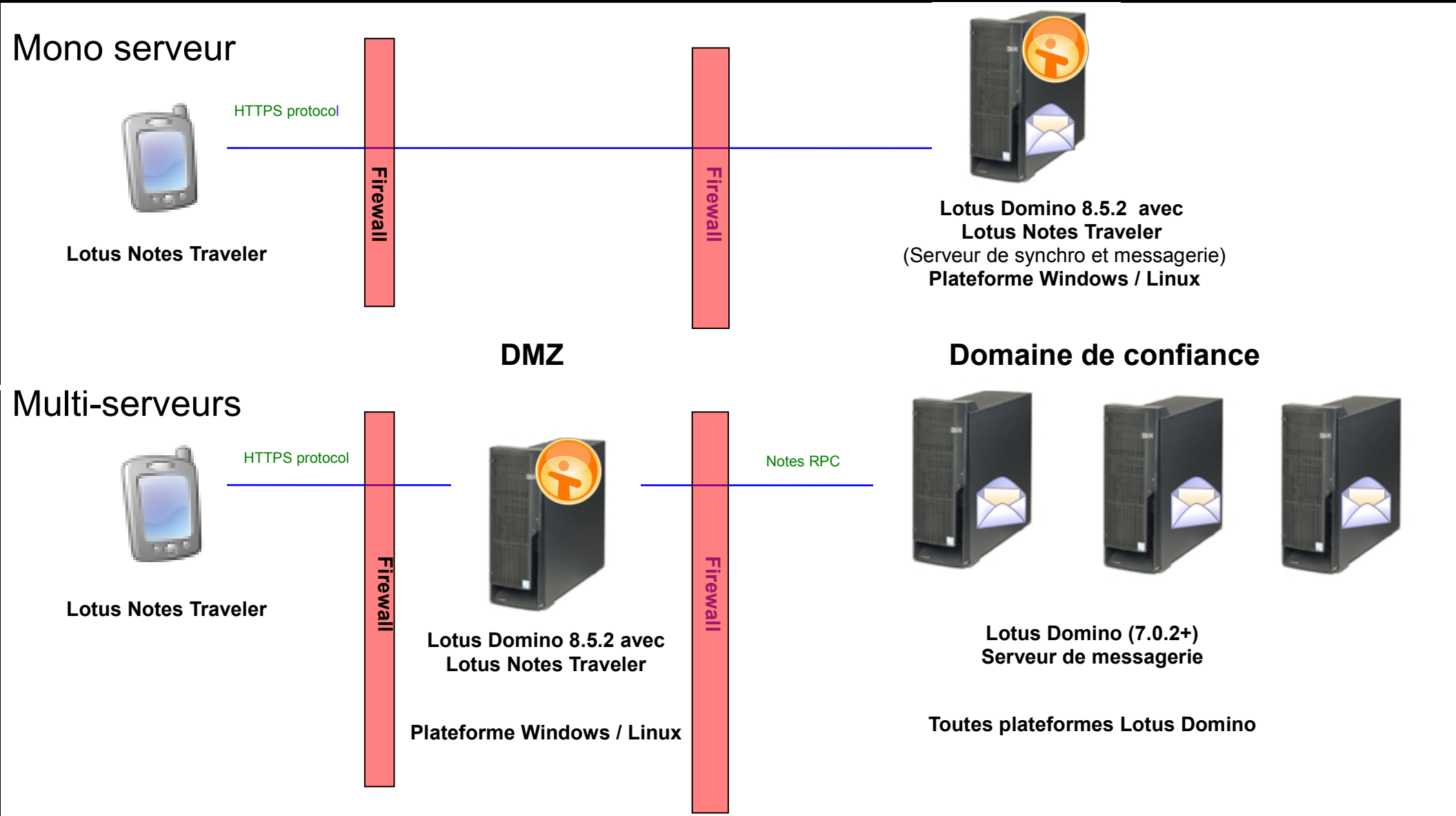
# Lotus Traveler 8.5.2 : Pré-requis serveur

- Operating System
  - Windows<sup>®</sup> Server 2003 Standard/Enterprise/R2 (32 & 64 bit)
  - Windows Server 2008 Standard/Enterprise (32 & 64 bit)
  - Windows Server 2008 Standard/Enterprise R2 (64 bit)
  - Red Hat Enterprise Linux<sup>®</sup> (RHEL) 5 Server (32 & 64 bit)
  - SUSE Linux Enterprise Server (SLES) 10.2 (32 & 64 bit)
  - SUSE Linux Enterprise Server (SLES) 11 (32 & 64 bit)
- Domino 8.5.2, Enterprise ou Messaging
  - Sur Windows : exécution en 32-bit ou 64-bit
  - Sur Linux : Domino 32 bits seulement ...
- Support des bases courrier distantes :
  - Sur des serveurs Domino 7.0.2+
  - Les serveurs de messagerie sont sur n'importe quel OS supporté par Domino
- Modèles des bases courrier
  - Modèles standards 6.5+





# Lotus Traveler côté serveur





## Lotus Traveler 8.5.2 : Pré-requis clients



- - iPhone, iPhone 3G, iPhone 3GS, iPhone 4
  - iPad
  - iPod Touch
  - Apple OS 3.x et iOS 4.x



- - Nokia Series 60 3rd edition, including feature pack 1 and 2
  - Nokia Series 60 5th edition
  - Nokia manufactured phones are only versions supported

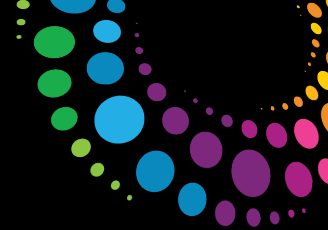


- - Windows Mobile 6.0, Standard, Professional and Classic versions
  - Windows Mobile 6.1, Standard, Professional and Classic versions
  - Windows Mobile 6.5, Standard, Professional versions
  - *Traveler 8.5.2 ne supporte plus Windows Mobile 5*



- - Android OS 2.0.1 and above (including tablets)
  - AT&T devices currently cannot install





# Windows Phone ? Nokia ?

- <https://www-304.ibm.com/support/docview.wss?uid=swg21470120>

## IBM platform statement for Symbian/Symbian^3 and Windows Phone relative to Nokia announcement.

### News

#### Abstract

IBM platform statement for Symbian/Symbian^3 and Windows Phone relative to Nokia announcement.

#### Content

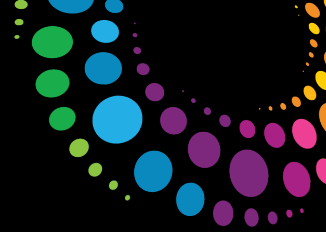
Following Nokia's February 11, 2011 announcement of their plan for a partnership with Microsoft and Windows Phone as their primary smartphone platform, the longtime IBM and Nokia relationship will continue. The IBM 2011 strategy for the Symbian platform remains unchanged. IBM will continue to support its mobile products on Nokia Symbian devices that are in market today and intends to add support later this year for Nokia Symbian^3 devices based on customer demand.

IBM Collaboration Solutions organization has no plans for Windows Phone support at this time. The IBM Collaboration Solutions team will continue to watch market trends and listen to its customers as the prerequisite indicators for forming plans relative to Windows Phone support.



Informations document
<a href="#">Lotus Notes Traveler</a>
Version du logiciel:
8.5.2
Système(s) d'exploitation:
Symbian OS, Windows Mobile
Edition:
All Editions
Numéro de référence:
1470120
Date de modification:
2011-03-11



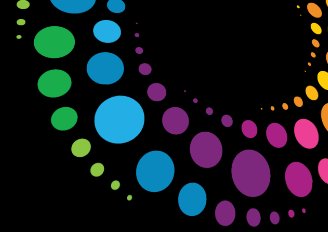


## Depuis Lotusphere 2010 ?

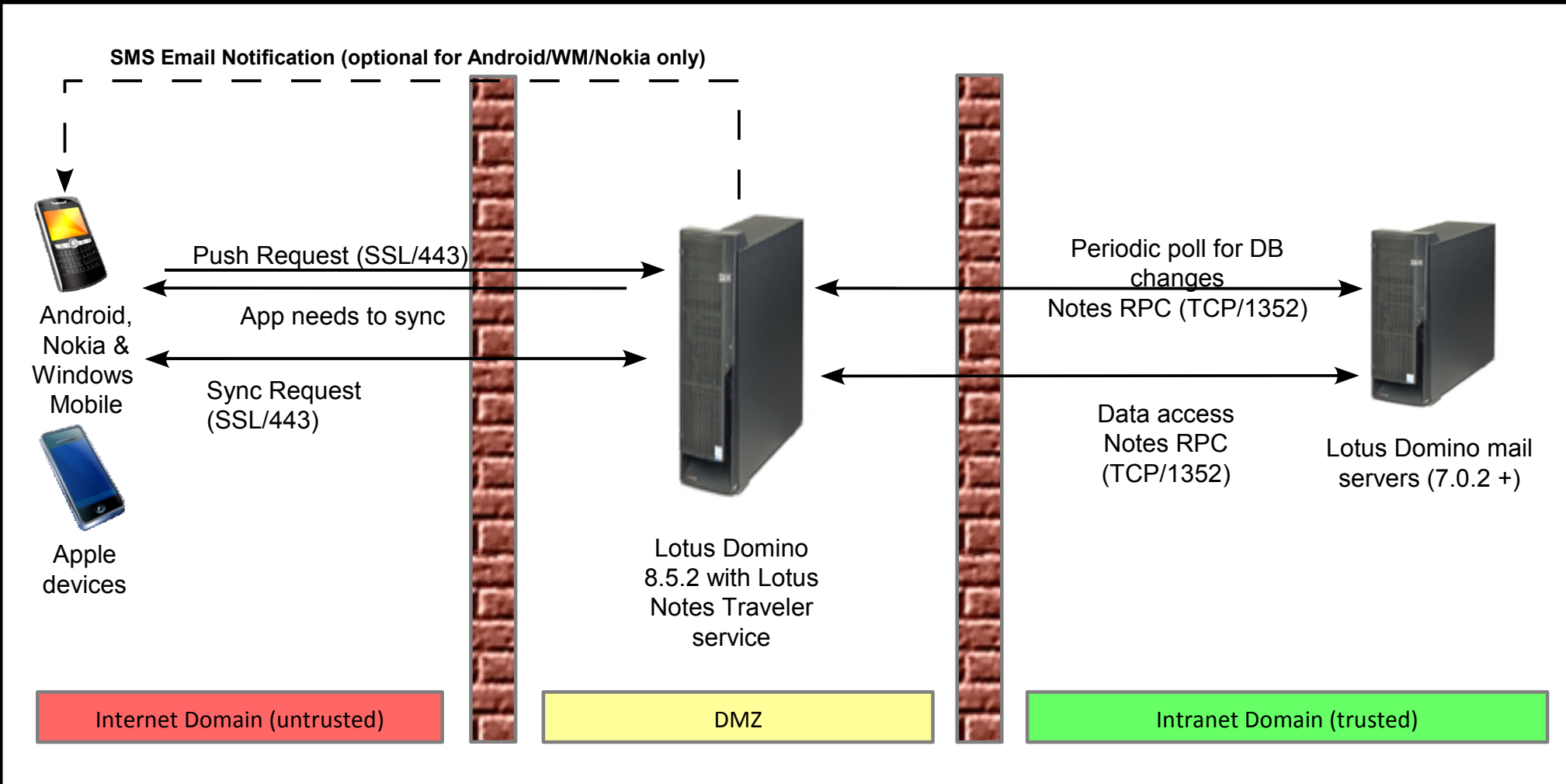
- Top Requirements à Lotusphere 2010
  - Serveur Linux
  - Invitations depuis l'iPhone
  - Gestion de l'iPhone (mot de passe, ... )
  - Recherche dans l'annuaire pour les terminaux Nokia and Windows
  - Un seul port de synchronisation HTTP/S
  - Mise à jour automatique du client Traveler (Lotus Mobile Installer)
  - “Réplication” synchronisée
  - Windows Mobile 6.5
  - Android
- Fonctions additionnelles
  - LotusLive Notes™
  - Support de l'iPad
  - Mails cryptés sur iOS (Lotus Traveler Companion)
  - Options de gestion de la sécurité depuis la page d'accueil du serveur Traveler
  - Détection du Data roaming

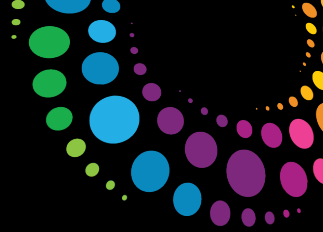




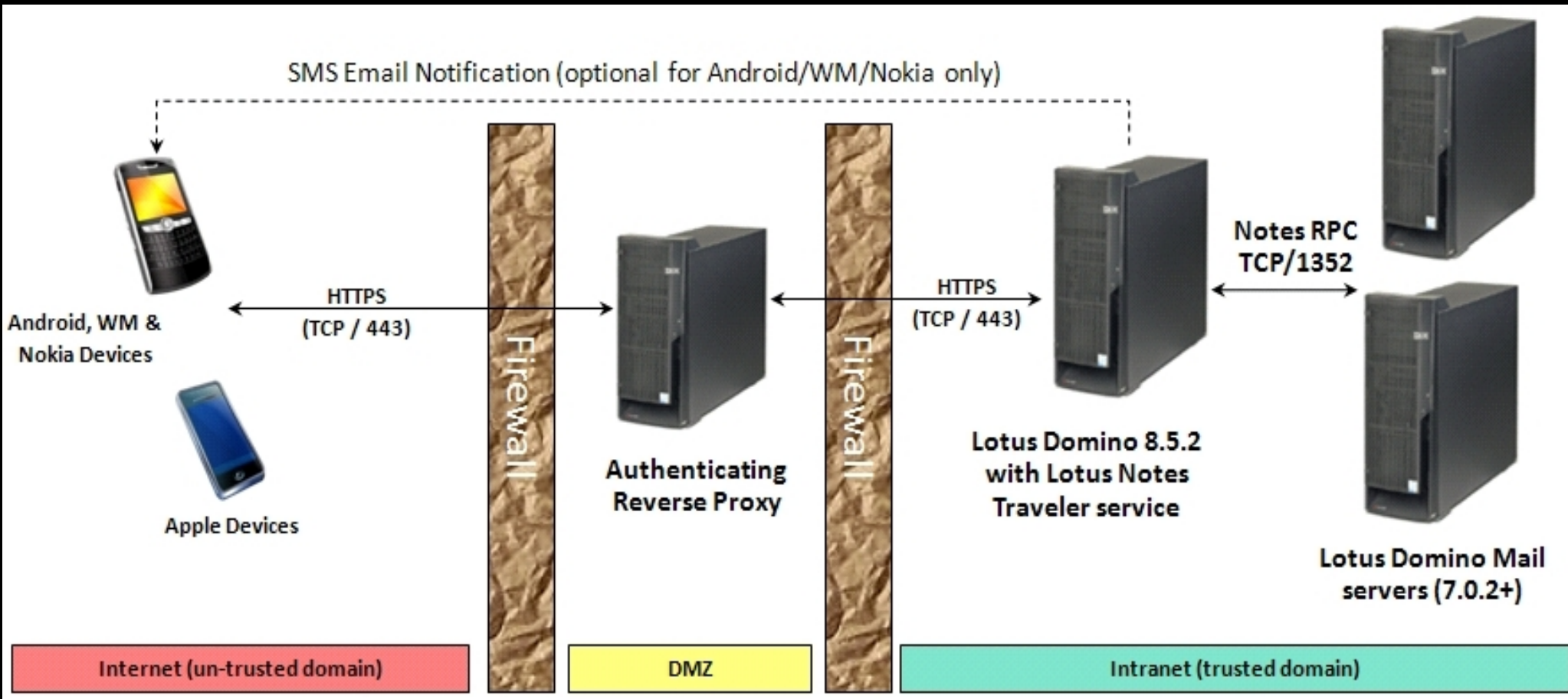


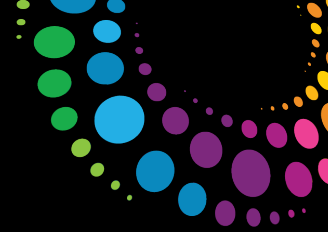
# Topologie réseau : connexion directe



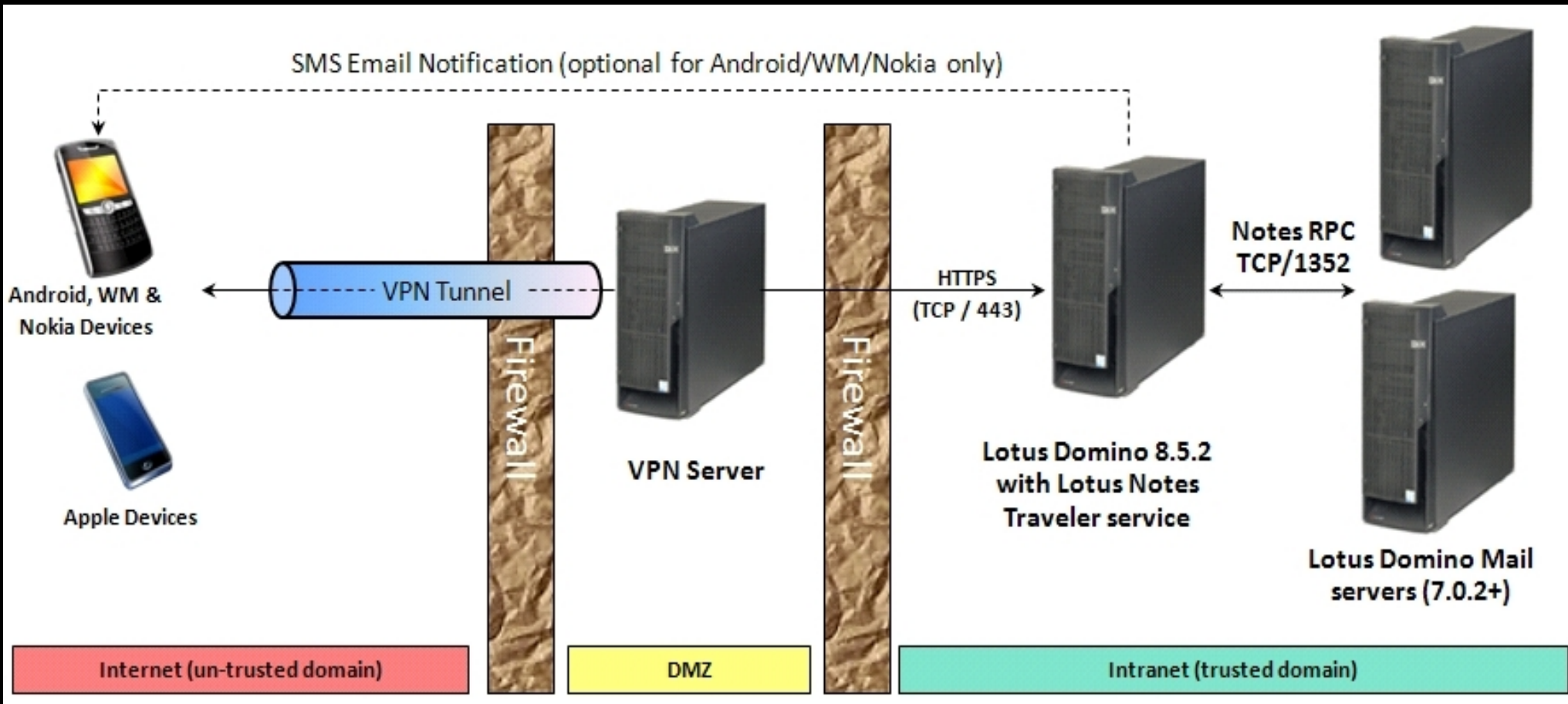


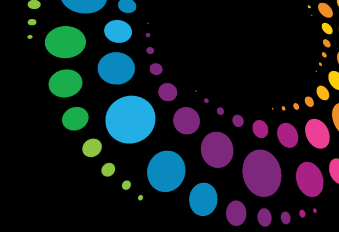
# Topologie réseau : Reverse Proxy





# Topologie réseau : Virtual Private Network





# Lotus Traveler pour iPhone (8.5+) et iPad (8.5.2)

- Messagerie

- Dossiers, support HTML riche, marqueurs non lus, suppression / déplacement de mail
- Accès au carnet d'adresses serveur
- Attachements (auto si <1Mo)
- Lecture mails chiffrés
- Agenda
- Traitement (8.5.1 FP1+) et création des invitations depuis l'iPhone (8.5.2+)

- Contacts

- Sécurité du terminal (8.5.2+)

- iPhones avant 3GS ne supportent pas le cryptage du terminal



- Non supporté par Apple

- Tâches
- Journal
- Créer, renommer ou supprimer des dossiers
- Indicateurs de priorité de messages et de réponse / faire suivre
- Synchronisation du dossier brouillons
- Messages cryptés
- Déplacer des messages, marquer en lu ou supprimer sans connexion au serveur
- Attachements dans l'agenda





# Configuration sur le terminal



- Configuration de compte Microsoft Exchange ☹️ ActiveSync sur iPhone
- Profil qui peut être packagé et installé depuis le serveur
- Ou utilitaire Apple pour la création de profil
  - <http://www.apple.com/fr/support/iphone/enterprise/>

The image displays a sequence of iPhone screens related to configuring an IBM Lotus Notes Traveler account. Key elements include:

- Web Interface:** A page titled "Generate a Bootstrap File" with fields for "Logon Name" (rsielken@us.ibm.com) and "Mail Address" (rsielken@us.ibm.com), and a "Generate" button.
- Install Profile Dialog:** Shows profile details for "IBM Lotus Notes Tr..." (Unsigned), received on "Apr 16, 2009", and containing an "Exchange" account.
- Enter Password Dialog:** Prompts for the password for the Exchange account "rsielken@us.ibm.com".
- Profile Installed Confirmation:** A "Done" button is visible after successful installation.
- Mail Settings:** Shows "Exchange ActiveSync" settings with "Mail", "Contacts", and "Calendars" all turned "ON". "Mail days to sync" is set to "3 Days".
- Warning Dialog:** An "Install Profile" warning states: "IMPORTANT: The authenticity of 'IBM Lotus Notes Traveler for rsielken@us.ibm.com' cannot be verified. Installing this profile will change settings and erase all existing calendars and contacts from your iPhone." Buttons for "Install Now" and "Cancel" are at the bottom.

# L'iPhone en entreprise ?

- Apple :

- Guide de déploiement en entreprise :  
[http://manuals.info.apple.com/fr\\_FR/Guide\\_de\\_deploiement\\_en\\_entreprise.pdf](http://manuals.info.apple.com/fr_FR/Guide_de_deploiement_en_entreprise.pdf)
- Utilitaire de configuration des iPhones pour créer des profils / configurations mail / mot de passe, réseaux, ...  
(<http://support.apple.com/kb/DL926>)



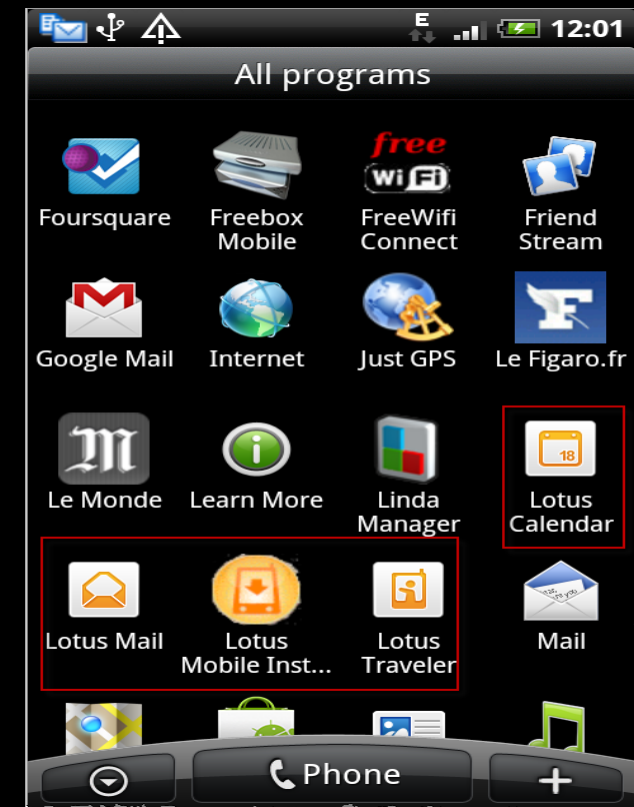
- iOS 4 :

- Cryptage des messages et attachements
- Plusieurs comptes ActiveSync (Ex. : Lotus Domino et gMail personnel)
- Support des VPN SSL (en plus de PPTP, L2TP et Cisco IPSec)
- Synchronisation et configuration OTA
- Ouverture des APIs pour la gestion des terminaux
  - Ex. : inventaire des applications sur les terminaux
  - Ex. : détecter la conformité des terminaux (jailbreak ...)
  - Ex. : Verrouillage / effacement à distance
- MobileIron et Good Technology sont les 2 premières solutions
- Autres solutions à venir : Afaria (Sybase iAnywhere), EveryWan 4 (Sparus)

# Lotus Traveler pour



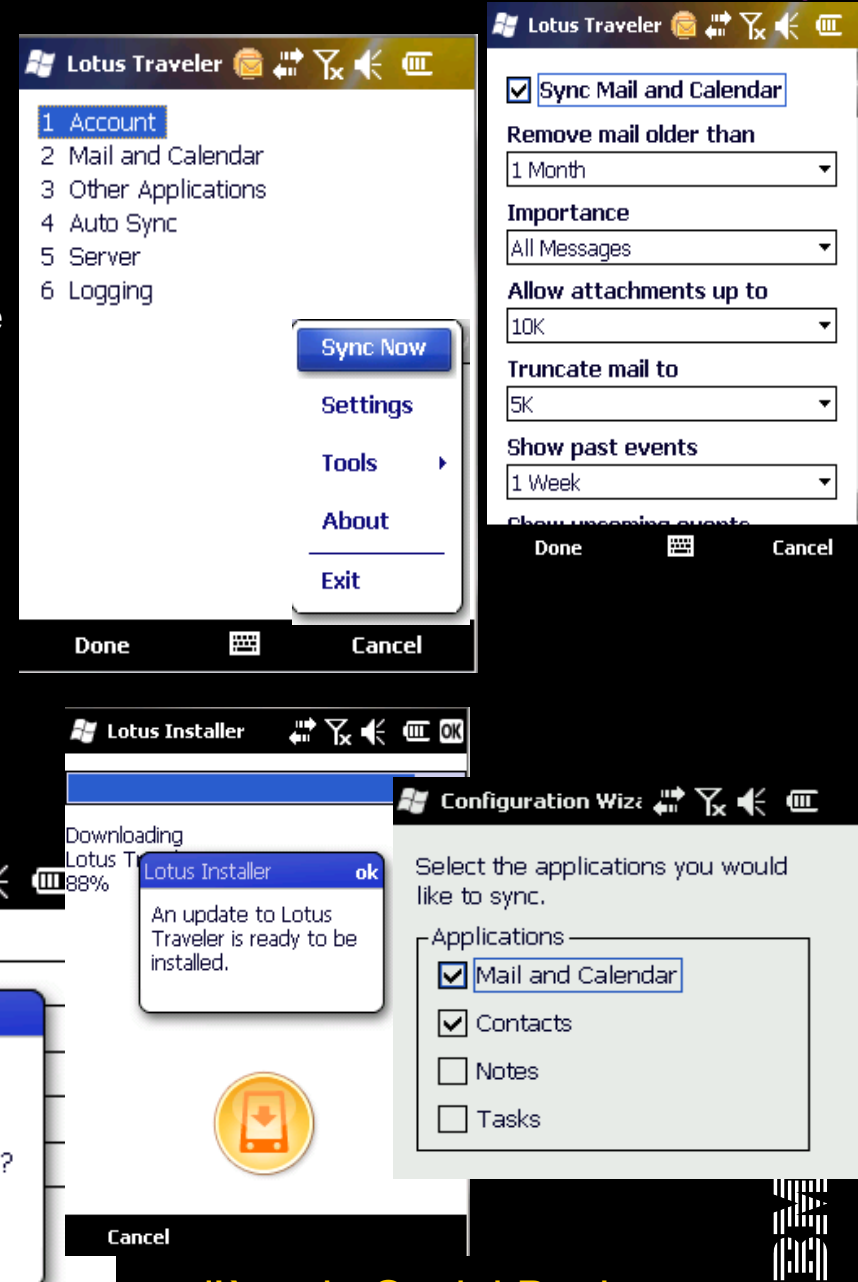
- Disponible depuis Notes Traveler 8.5.2.1
- Client Traveler pour la messagerie
- Support Android 2.01+
  - Limitations de sécurité pour Android <2.2  
[http://www-10.lotus.com/ldd/dominowiki.nsf/dx/Limitations\\_on\\_Android\\_devices\\_LNT8521](http://www-10.lotus.com/ldd/dominowiki.nsf/dx/Limitations_on_Android_devices_LNT8521)
  - Lotus Traveler 8.5.2.2 : + Honeycomb (Android 3)
- Plupart des fonctionnalités Mail, agenda et contacts
  - Limitations : création / modification d'invitations, cryptage ...  
[http://www-10.lotus.com/ldd/dominowiki.nsf/dx/Android\\_limitations\\_and\\_restrictions\\_LNT8521](http://www-10.lotus.com/ldd/dominowiki.nsf/dx/Android_limitations_and_restrictions_LNT8521)
  - La 8.5.3 améliorera encore les fonctionnalités





# Configuration sur le terminal

- Client Traveler sur Windows Mobile, Nokia & Android
- Client pour la configuration
- Peut être packagé et téléchargé du serveur
- 8.5.2 : Lotus Installer pour faciliter le déploiement et la mise à jour automatique
- Outils tiers pour déploiements sur terminaux mobiles (IBM Tivoli Bigfix, Sparus/Zenprise ...)







# Lotus Traveler : gestion centralisée



- Politiques Domino (serveur et BALs 8.0.1+), names.nsf dans la dernière version
  - Les modifications de sécurité s'appliquent toujours
  - Pour les autres paramètres seules les modifications sur les champs verrouillés s'appliquent
- Ou paramètres dans LotusTraveler.nsf (Notes Traveler 8.5.1+)
  - Sync / Filter / Device s'appliquent seulement à la configuration initiale
- Attention : Sync / Filter / Device ne s'appliquent pas aux terminaux Apple

**Lotus Traveler Settings** : Settings traveler default

Basics | Preferences | Comments | Administration

Sync | Filter Settings | Device Settings | Security Settings

Mail Filters:	How to apply this setting:	Inherit from parent policy:	Enforce in child policies:
Email Body Truncation: <input checked="" type="checkbox"/> Enabled 5K	Set initial value	<input type="checkbox"/> Inherit	<input type="checkbox"/> Enforce
Maximum Email Attachment Size Allowed - Administrator 1500 KB	<input type="checkbox"/> Don't set value	<input type="checkbox"/> Inherit	<input type="checkbox"/> Enforce
Email Attachments: <input checked="" type="checkbox"/> Enabled	Set initial value	<input type="checkbox"/> Inherit	<input type="checkbox"/> Enforce
Email Attachment Size: 50 KB	Set initial value	<input type="checkbox"/> Inherit	<input type="checkbox"/> Enforce
Email Date Filter: <input checked="" type="checkbox"/> Enabled 1 Week	Set initial value	<input type="checkbox"/> Inherit	<input type="checkbox"/> Enforce
Email Importance: <input type="checkbox"/> High Importance Only	Don't set value	<input type="checkbox"/> Inherit	<input type="checkbox"/> Enforce

Other Filters	How to apply this setting:	Inherit from parent policy:	Enforce in child policies:
Calendar Date Filter:			
Past Events: <input checked="" type="checkbox"/> Enabled 1 Week	Don't set value	<input type="checkbox"/> Inherit	<input type="checkbox"/> Enforce
Future Events: <input checked="" type="checkbox"/> Enabled 3 Months	Don't set value	<input type="checkbox"/> Inherit	<input type="checkbox"/> Enforce
Journal Date Filter: <input checked="" type="checkbox"/> Enabled 1 Week	Don't set value	<input type="checkbox"/> Inherit	<input type="checkbox"/> Enforce
ToDo Status: <input checked="" type="checkbox"/> Incomplete Status Only	Don't set value	<input type="checkbox"/> Inherit	<input type="checkbox"/> Enforce





# Lotus Traveler : sécurité du terminal

- Politique de sécurité
  - Saisie , complexité, historique du mot de passe sur le terminal
  - Nokia depuis 8.5.1, demande une bibliothèque Nokia
- Verrouillage après inactivité du terminal
- Stockage crypté sur cartes amovibles
- Vidage du terminal après x erreurs de mot de passe
- LotusTraveler.nsf permet de suivre ces sécurités
- Vidage distant possible (iPhone = hard reset)
- Android : attention certaines fonctions requièrent 2.2+

**Lotus Traveler**  
Error: Sync has been disabled by your administrator because of a device security policy violation. Device Security Violation(s): Inactivity. Device is up-to-date.

**Security Status**  
Not compliant

- ✓ Expiration: Device setting is 90. Traveler policy is 90.
- ✓ History: Device setting is 3. Traveler policy is 3.
- ✗ Inactivity: Device setting is 45. Traveler policy is 45.
- ✓ Wipe: Device setting is 7. Traveler policy is 7.

**Device Password**  
Strength: ✓  
Inactivity: ✓  
Storage Card Encryption: ✗

**Details:**  
Device setting is On  
Traveler policy is On

**Lotus Traveler Device Settings : Default**

Basics | Preferences | Assignment |

Sync | Filter Settings | Device Settings | Security Settings |

Windows Mobile | Nokia | Apple | Android |

**Device Security**

- Require device password (Violation Action: Enforce)
  - Prohibit ascending, descending and repeating sequences
  - Require alphanumeric value
  - Minimum password length: 8
  - Minimum number of complex characters: 2
  - Auto lock period (maximum): 30 minutes
  - Password expiration period: 90 days
  - Password history count: 4
  - Wrong passwords before wiping device: 8
  - Prohibit unencrypted devices
- Prohibit camera (Violation Action: Enforce)
- Prohibit devices incapable of security enablement (Violation Action: Enforce)

Server: perseusfibm  
Build V851\_04092009NP on Windows/2003 5.2 Intel

Device Name	Security Policy	Access	Wipe Options
test6fibm	No policy	Allow	None
test7fibm	No policy	Allow	None
Apple-iPhone	Compliant	Allow	None
E51	Compliant	Allow	None
Microsoft DeviceEmulator	Compliant	Allow	None

**Select wipe device options**

Select one or more options for this request

- Hard reset device
- Lotus Traveler application and data
- Storage card



# Paramètres de sécurité

## Lotus Traveler Device Settings : Default

Basics | Preferences | Assignment

Sync | Filter Settings | Device Settings | Security Settings

Windows Mobile | Nokia | Apple | Android

### Device Security

	Violation Action
<input checked="" type="checkbox"/> Require device password	Enforce
<input type="checkbox"/> Prohibit ascending, descending and repeating sequences	
<input checked="" type="checkbox"/> Require alphanumeric value	
Minimum password length:	8
Minimum number of complex characters:	2
Auto lock period (maximum):	30 minutes
Password expiration period:	90 days
Password history count:	4
<input type="checkbox"/> Wrong passwords before wiping device	8
<input checked="" type="checkbox"/> Prohibit unencrypted devices	
<input checked="" type="checkbox"/> Prohibit camera	Enforce
<input checked="" type="checkbox"/> Prohibit devices incapable of security enablement	Enforce

## Lotus Traveler Device Settings : Default

Basics | Preferences | Assignment

Sync | Filter Settings | Device Settings | Security Settings

Windows Mobile | Nokia | Apple | Android

### Device Security

	Violation Action
<input checked="" type="checkbox"/> Require device password	Disable Synchronization
Minimum password length:	4
Maximum times character repeats:	0
<input checked="" type="checkbox"/> No adjacent numbers	
<input checked="" type="checkbox"/> Require alphanumeric	
<input checked="" type="checkbox"/> Upper and lower case	
Inactivity timeout (maximum):	30 minutes
Password expiration period:	0 days
Password history count:	0
<input type="checkbox"/> Wrong passwords before wiping device	7
<input checked="" type="checkbox"/> Storage card encryption	Report
<input type="checkbox"/> Prohibit devices incapable of security enablement	Enforce

## Lotus Traveler Device Settings : Default

Basics | Preferences | Assignment

Sync | Filter Settings | Device Settings | Security Settings

Windows Mobile | Nokia | Apple | Android

### Device Security

<input checked="" type="checkbox"/> Require device password	
<input checked="" type="checkbox"/> Require alphanumeric value	
Minimum password length:	12
Auto lock period (maximum):	27 minutes
<input checked="" type="checkbox"/> Wrong passwords before wiping device	3
<input checked="" type="checkbox"/> Prohibit devices incapable of security enablement	

## Lotus Traveler Device Settings : Default

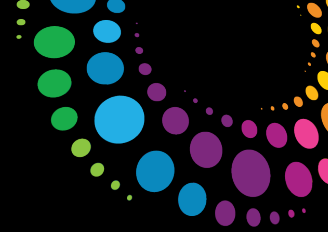
Basics | Preferences | Assignment

Sync | Filter Settings | Device Settings | Security Settings

Windows Mobile | Nokia | Apple | Android

### Device Security

<input checked="" type="checkbox"/> Require device password	
Password type:	Simple PIN
Inactivity timeout (maximum):	30 minutes
<input checked="" type="checkbox"/> Wrong passwords before wiping device	7
<input type="checkbox"/> Storage card encryption	
<input checked="" type="checkbox"/> Prohibit devices incapable of security enablement	



# Sécurité du terminal - Wipe/Deny

Lotus Traveler

Deny Access Wipe Device Clear Wipe / Allow Access Update SMS Address

Device Name	Security Policy	Access	Wipe Option	Wipe Status	Action Date	SMS Address	User
Apple-iPad1C1	No policy	Deny			12/16/2010 07:38:35 AM		Raul Michael Cortez
HTC PC36100	Not compliant	Allow	None			1234567890@mys	Raul Michael Cortez

**Select wipe device options**

Select one or more options for this request.

- Hard reset device
- Lotus Traveler application and data
- Storage card

OK

## Manage Security (Raul Michael Cortez Ruiz)

### Device: HTC PC36100 (Android\_377971178f717b36)

#### Status

No security actions are pending.

#### Request Security Action

- [Wipe Device and Storage Card](#) - Resets the device to the factory default state (erases everything on the device), erases everything on the storage card, and prevents the device from synchronizing with the server.
- [Wipe Application and Storage Card](#) - Erases all Lotus Notes Traveler client software and data from the device, erases everything on the storage card, and prevents the device from synchronizing with the server.
- [Wipe Device](#) - Resets the device to the factory default state (erases everything on the device) and prevents the device from synchronizing with the server.
- [Wipe Application](#) - Erases all Lotus Notes Traveler client software and data from the device and prevents the device from synchronizing with the server.
- [Wipe Storage Card](#) - Erases everything on the storage card and prevents the device from synchronizing with the server.
- [Deny Access](#) - Prevents the device from synchronizing with the server.

### Device: Apple-iPad1C1 (AppIV5028N78Z38)

#### Status

Security action Deny Access was requested at Thursday, December 16, 2010 7:38:35 AM EST by Administrator and is pending.

#### Request Security Action

- [Wipe Device](#) - Resets the device to the factory default state (erases everything on the device) and prevents the device from synchronizing with the server.

Last updated: Thursday, December 16, 2010 7:50:46 AM EST

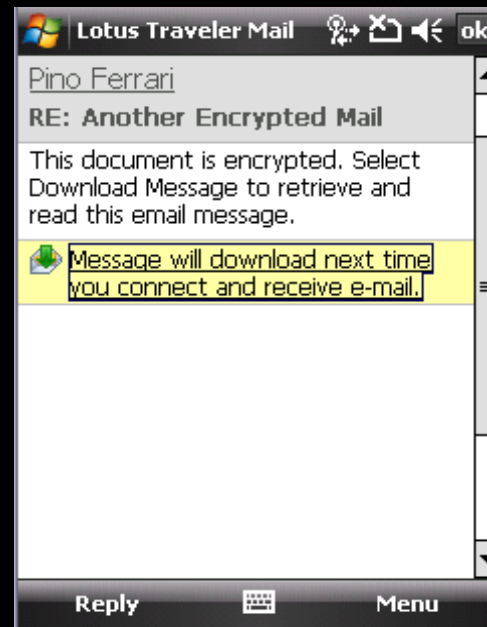
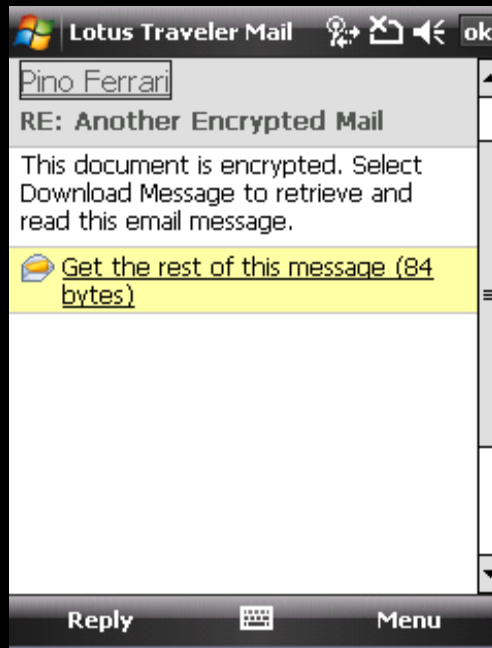
[Refresh](#)

[Lotus Notes Traveler User Home Page](#)



# Lotus Traveler : chiffrement des mails

- Lecture et envoi de mail chiffré
- Requiert un accès à l'ID de l'utilisateur sur le serveur
  - L'ID doit être dans la base mail de l'utilisateur
    - Soit à la création, import ou transfert par la servlet traveler
  - ID Vault supporté (8.5.1+)
- Le mail chiffré est identifié, le mot de passe est demandé et le mail récupéré
- Traveler Companion (Apple Store) pour les mails chiffrés sur iPhone




# Lotus Traveler Companion (8.5.1.1+)

- 1ère application IBM Lotus Software dans l'Apple Store
- Lecture et envoi des mails cryptés sur l'iPhone
- Un message crypté contient un lien vers Traveler Companion Link
- Configuration a effectuer sur le serveur Traveler (8.5.1 FP1+)
  - Fichier NTSConfig.xml & notes.ini
  - Fichier ID dans la base courrier / vault
    - Upload possible depuis la page d'accueil du serveur Traveler



**IBM Lotus Notes Traveler Companion** By IBM Lotus [View More By This Developer](#)

Open iTunes to buy and download apps.



**Description**  
IBM® Lotus® Notes® Traveler Companion offers IBM Lotus Domino® mail extensions for Domino mail. Now, users who synchronize their Domino mail using IBM Lotus Notes Traveler have the additional feature of viewing Domino-encrypted mail on their iPhone!

[IBM Lotus Web Site](#) [IBM Lotus Notes Traveler Companion Support](#) [...More](#)

**What's New in Version 2.0.2**  
- Bug fixes

[View In iTunes](#)

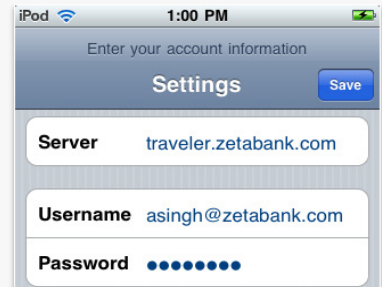
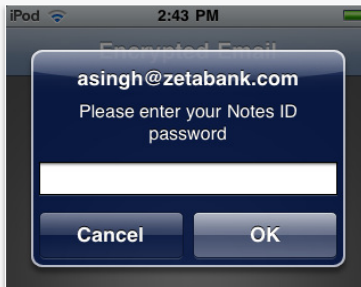
This app is designed for both iPhone and iPad

**Free**  
Category: Business  
Updated: Feb 22, 2011  
Current Version: 2.0.2  
2.0.2 (iOS 4.0 Tested)  
Size: 0.4 MB  
Language: English  
Seller: IBM  
© 2010, 2011 IBM Corp.  
Rated 4+

**Requirements:** Compatible with iPhone, iPod touch, and iPad. Requires iOS 3.0 or later

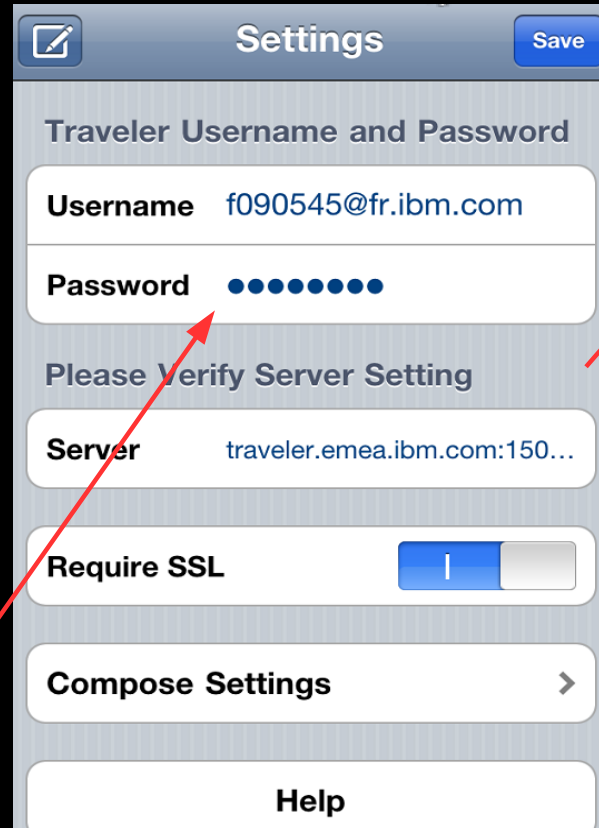
**Customer Ratings**

**Screenshots**




# Lotus Traveler Companion



# Lotus Traveler : sécurité du terminal

[http://www-10.lotus.com/ldd/dominowiki.nsf/dx/Planning\\_for\\_security\\_LNT8521](http://www-10.lotus.com/ldd/dominowiki.nsf/dx/Planning_for_security_LNT8521)

Security Option	Lotus Notes Traveler 8.5.2 Support			
	Apple	Nokia	Windows® Mobile	Android
Encrypted data in transit (through HTTPS)	Supported	Supported	Supported	Supported
Domino® encrypted mail	Supported With Lotus Notes Traveler companion - read only	Supported	Supported	Not supported
Remote wipe	Supported Device wipe only	Supported Device wipe and Lotus® Traveler wipe options	Supported Device wipe and Lotus Traveler wipe options	Supported (Device wipe requires Android 2.2)
Encrypted data at rest	Supported with Domino policies.  Whole devices can be encrypted, and enabled and enforced with the security policies in Lotus Notes Traveler 8.5.2. iPhones that do not support hardware encryption can be blocked. iPhone 3GS, iPhone 4 and the iPad support hardware encryption. First-generation iPhone and iPhone 3G do not.  Domino policies that administrators can use to force the enablement of encryption and block unencrypted phones are: <ul style="list-style-type: none"><li>• Prohibit unencrypted devices</li><li>• Prohibit devices incapable of security enablement</li></ul>	Supported with Domino policies or Lotus Notes Traveler device preferences and security settings  Storage cards can be encrypted. Data in native PIM and e-mail applications is not encrypted, except for Domino encrypted mail.	Supported with Domino policies or Traveler device preferences and security settings  Storage cards can be encrypted. Data in native PIM and e-mail applications is not encrypted, except for Domino encrypted mail.	Supported
Password monitoring to allow or deny access	Supported with Domino policies.  Domino Policies that administrators can use to manage passwords are: <ul style="list-style-type: none"><li>• Device password</li><li>• Prohibit ascending, descending, and repeating sequences</li><li>• Require alphanumeric value</li><li>• Minimum password length</li><li>• Minimum number of complex characters</li><li>• Password expiration period</li><li>• Password history count</li><li>• Auto lock period (maximum)</li><li>• Wrong passwords before wiping device</li></ul>	Supported with Domino policies or Lotus Notes Traveler device preferences and security settings	Supported with Domino policies or Lotus Notes Traveler device preferences and security settings	Supported with Domino policies or Lotus Notes Traveler device preferences and security settings. Requires an Android 2.2 device.  Security policies that administrators can use to manage passwords are: <ul style="list-style-type: none"><li>• Device password</li><li>• Require alphanumeric value</li><li>• Minimum password length</li><li>• Auto lock period (maximum)</li><li>• Wrong passwords before wiping device</li></ul>



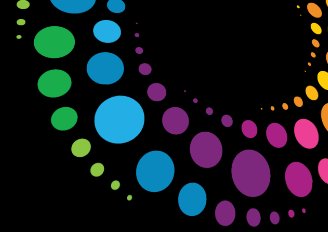
symbian



ANDROID





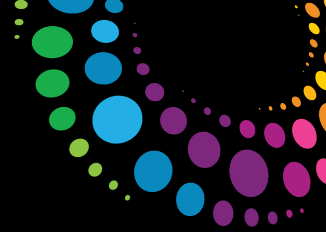


# Lotus Traveler : sécurité du terminal

Lotus Notes Traveler	8.5.1			8.5.2 and 8.5.2.1			8.5.2.1
	Apple	Nokia Symbian	Windows Mobile	Apple	Nokia Symbian	Windows Mobile	Android
Encrypted data in transit (using HTTPS)	Yes	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes	Yes	Yes	Yes
Domino encrypted mail	Yes w/ Companion (read only)	Yes	Yes	Yes w/ Companion read & compose	Yes	Yes	No
Remote wipe	Yes Full reset only	Yes Full or Traveler only	Yes Full or Traveler only	Yes Full reset only	Yes Full or Traveler only	Yes Full or Traveler only	Yes Full or Traveler only
Encrypted data at rest	No <sup>2</sup>	No <sup>3</sup>	No <sup>3</sup>	Yes <sup>4</sup> w/ Domino policies	No <sup>3</sup>	No <sup>3</sup>	Yes
Password monitoring (allow/deny access)	Yes <sup>5</sup> via IPCU	Yes	Yes	Yes <sup>6</sup> w/ Domino policies	Yes	Yes	Yes

1. Push data is not encrypted. There is no confidential information in the data - just meta-data plus user and device IDs.
  2. Except for Domino encrypted mail. 3G and 4 can be enabled by the user but cannot be enforced or checked by the admin.
  3. Storage cards can be encrypted. Data in native PIM/email applications is not encrypted except for Domino encrypted mail.
  4. Whole devices can be encrypted, and can be enabled and enforced with the security policies in 8.5.2. iPhones that don't support hardware encryption can be blocked. The 3GS & 4G support hardware encryption, Original and 3G don't. Domino policies that admins can use to force the enablement of encryption and block unencrypted phones are:
    - Prohibit unencrypted devices
    - Prohibit devices incapable of security enablement
  5. Static policy changes (user must remove and reinstall the Apple Profile)
  6. Domino Policies that admins can use to manage passwords are:
    - Device password
    - Prohibit ascending, descending and repeating sequences
    - Require alphanumeric value
    - Minimum password length
    - Minimum number of complex characters
    - Password expiration period
    - Password history count
    - Auto lock period (maximum)
    - Wrong passwords before wiping device
- Dynamic policy changes (admin changes are automatically synchronized to the device without requiring user interaction)

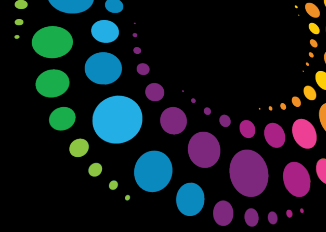




## Best Practices - Checklist

- Le serveur Lotus Traveler demande certains accès :
  - Aux serveurs de messagerie
  - Aux bases courrier des utilisateurs (manager + suppression)
  - Aux annuaires distants (accès au serveur + lecture)
  - Aux annuaires cluster des serveurs de messagerie (clbdir.nsf, lecteur)
- Cross certification si domaines / certificats différents
- HTTP Password ou Directory Assistance si certains utilisateurs ne sont pas dans le carnet d'adresses local
- En cas de proxy devant un serveur Lotus Traveler, paramétrer "External URL" dans le document serveur (utilisé notamment pour les profils Apple)
  - Ou Notes.ini : NTS\_EXTERNAL\_URL=http(s)://(external url used by device)/servlet/traveler
- Routage de mail configuré sur le serveur Lotus Traveler

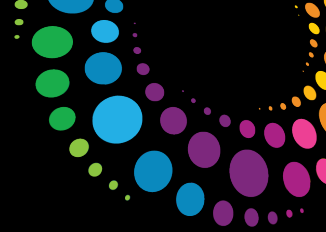




## Best Practices - Domains

- Domaine existant
  - Le plus rapide à mettre en oeuvre
  - Demandra probablement peu de changements de LCA (LocalDomainServers)
  - Pas de changement pour la recherche de personnes
  - Demande un serveur et annuaire en 8.5.2, le reste du domaine pouvant être dans d'autres versions
- Domaine indépendant
  - Changements minimums pour les domaines de production
  - Serveur facile à installer et vérifier les utilisateurs locaux
  - Demande une configuration supplémentaires pour se connecter à la production
    - Sécurité
    - Annuaire
    - Routage
    - Politiques administration

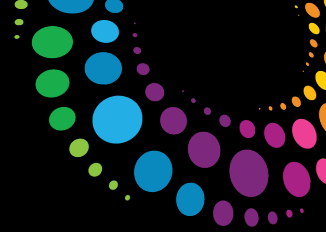




## Best Practices – upgrade 8.5.2

- Push passé de TCP à HTTP (Windows Mobile & Nokia)
  - Augmenter threads HTTP
- Apple.xml
  - Support des reverse proxy (URL “External Server”), le fichier Apple.xml peut donc être supprimé et re-créé depuis AppleTemplate.xml
  - La sécurité Apple est dans le processus de synchronisation => peut être supprimé du fichier Apple.xml (com.apple.mobiledevice.passwordpolicy <DICT>)
- Si tous les clients traveler sont en 8.5.2, passer le port TCP à 0 pour désactiver





## Best Practices – configuration serveur

- Installer Lotus Notes Traveler sur un serveur 64-bit
  - Accès à une mémoire > 2GB critique pour une population > 300
  - La mémoire virtuelle est partagée par tous les processus Domino et peut dépasser 2GB => serveur dédié ?
  - [32 bits ou RAM limitée] : Réduire la mémoire pré allouée par Domino  
NSF\_BUFFER\_POOL\_SIZE\_MB=256 (d=512)
- Eviter d'avoir d'autres applications sur le serveur the Lotus Notes Traveler
  - Certaines applications peuvent modifier provoquer une configuration non compatible (ex. Désactiver la JVM HTTP)
- Restreindre les accès
  - Utilisateurs ou groupes
  - Types de terminaux (ALLOWED\_USER\_AGENT\_REGEX in NTSCConfig.xml)  
[http://www-10.lotus.com/ldd/dominowiki.nsf/dx/Restricting\\_access\\_by\\_device\\_category\\_LNT8521](http://www-10.lotus.com/ldd/dominowiki.nsf/dx/Restricting_access_by_device_category_LNT8521)
- Défragmenter régulièrement la base interne de Lotus Notes Traveler's
  - load traveler -defrag
- Vérifier régulièrement le statut du serveur
  - tell traveler status





## Best Practices - HTTP

- Vérifier les thread HTTP par rapport au nombre de terminaux actifs
  - HTTP Active Threads = 1.2 x terminaux actifs
  - Server Configuration | Internet Protocols | HTTP
  - Les thread HTTP Domino sont alloués au démarrage => allouer juste le nécessaire
- Pour les terminaux Apple, activer GET, POST, et aussi OPTIONS





# Lotus Traveler, performances

- <http://www.ibm.com/developerworks/lotus/library/notes852-trav-perf/index.html>

## Conclusion

### Windows (64-bit) operating systems

The performance measurements of the Lotus Notes Traveler 8.5.2 server and the Lotus Domino 8.5.2 Mail server in a remote configuration on Windows 64-bit operating systems show that a Lotus Notes Traveler 8.5.2 64-bit server was able to support more than 2000 Windows Mobile users or more than 1500 Apple device users, or 2000 mixed users for the workloads presented in this report. Testing showed the ability to achieve a load of 2500 Windows Mobile users.

The Lotus Notes Traveler Windows 64-bit server, with four dual-core processors and 8 GB memory was at approximately 47 percent processor utilization at 2,000 (WM) active users and at 1.7 GB memory usage for 2000 Windows Mobile devices and 23 percent processor and 1.6 GB memory usage for 1500 Apple devices. For a mixed load of 2000 active users (50 percent Windows Mobile 6/Nokia and 50 percent Apple users) processor was at 40 percent processor and 1.7 GB memory.

With the Lotus Domino 8.5.2 mail server at steady state of 4000 N8Mail users and 2000 (64-bit) Lotus Notes Traveler Windows Mobile 6 or Nokia users or 1500 Apple users or 2000 mixed-load users, the processor utilization on the Lotus Domino mail server was moderately affected.

To support more than 2000 (or number reached in our tests) active Lotus Notes Traveler users, customers need to deploy more than one Lotus Notes Traveler 8.5.2 64-bit server. The processor utilization on the Lotus Domino mail server should be monitored to ensure that the mail server can handle the added activity from the Lotus Notes Traveler users at peak load.

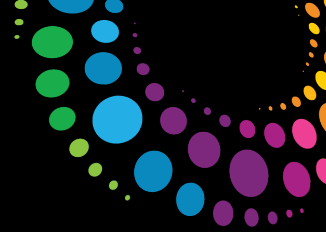
Note that Lotus Notes Traveler is a memory-intensive application and it is best to deploy Lotus Domino 64-bit servers on Windows 64-bit operating systems to support large numbers of mobile device users.

### Linux 64-bit operating systems

The performance measurements of the Lotus Notes Traveler 8.5.2 (32-bit server) and the Domino 8.5.2 Mail server in a remote configuration on Linux 64-bit operating systems show that a Lotus Notes Traveler 8.5.2 32-bit server was able to support more than 1500 Windows Mobile users or 1500 Apple device users, or 1500 mixed users for the workloads presented in this report.

The Lotus Notes Traveler Linux 64-bit server, with four dual core processors and 8 GB memory was at approximately 40 percent processor utilization at 1500 (Windows Mobile) active users and at 1.26 GB memory usage, for 1500 Apple devices at 32 percent processor and 1.5 GB memory, and for mixed 1500 devices at 33.5 percent processor and 1.3 GB memory.



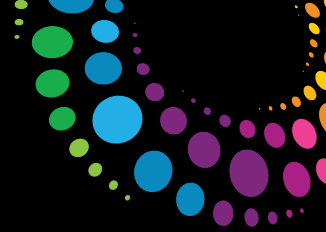


# Top Requirements à Lotusphere 2011

- Haute disponibilité et répartition de charge
- Android
  - Actions sur les invitations : inviter, replanifier, annuler ...
  - Cryptage de mail
  - Appeler depuis les entrées d'agenda
  - Widgets mail et agenda
  - Vue agenda / mois
  - Journal / Tâches
  - Amélioration sur la signature
  - Langages additionnels
- Nokia Symbian^3
- Apple
  - Filtrages applicatifs et données forcés par le serveur
  - Wipe de Lotus Traveler seul
  - Journal et Tâches







## Références

- Lotus Notes Traveler Product Page
  - <http://www.ibm.com/lotus/lotusnotestraveler>
- Latest Recommended Fixes
  - <http://www-01.ibm.com/support/docview.wss?rs=475&uid=swg24019529>
- Domino Wiki with Lotus Notes Traveler Information
  - <http://www-10.lotus.com/ldd/dominowiki.nsf>
- Lotus Greenhouse
  - <http://greenhouse.lotus.com>
- Lotus Notes Traveler Support FAQ
  - <http://www-01.ibm.com/support/docview.wss?uid=swg21450615>
- Traveler Companion FAQ
  - [http://www-10.lotus.com/ldd/dominowiki.nsf/dx/Traveler\\_Companion\\_FAQ](http://www-10.lotus.com/ldd/dominowiki.nsf/dx/Traveler_Companion_FAQ)
- Lotus Traveler security enablement library (distributed by Nokia)
  - <http://www.nokia.com/lotustraveler>





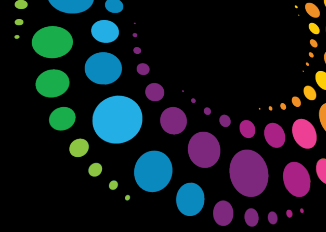
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**Lotus** software

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