



Lotus Notes Traveler 8.5.3 -New features and Best practices

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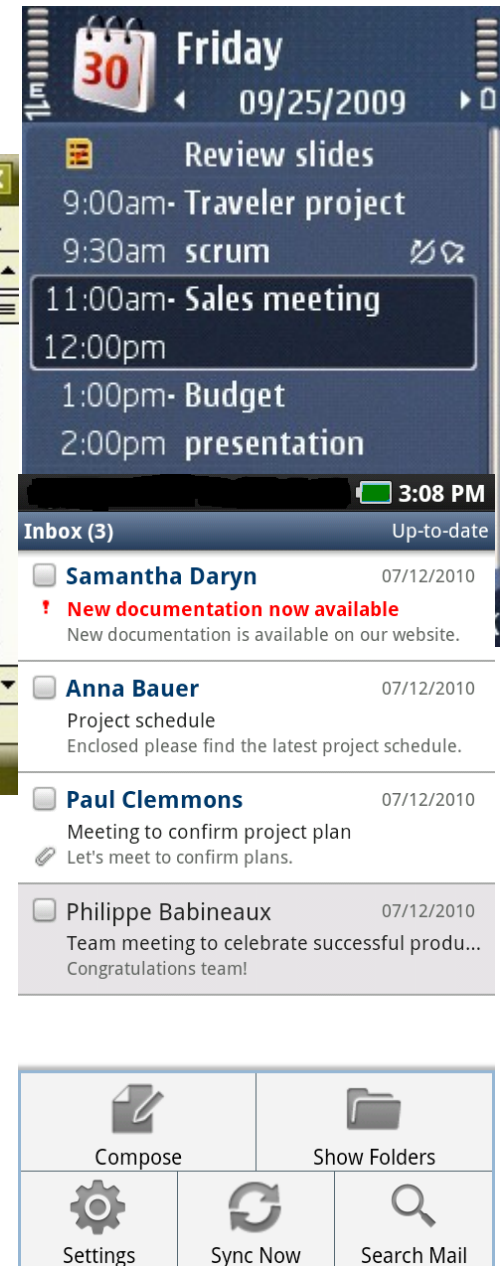
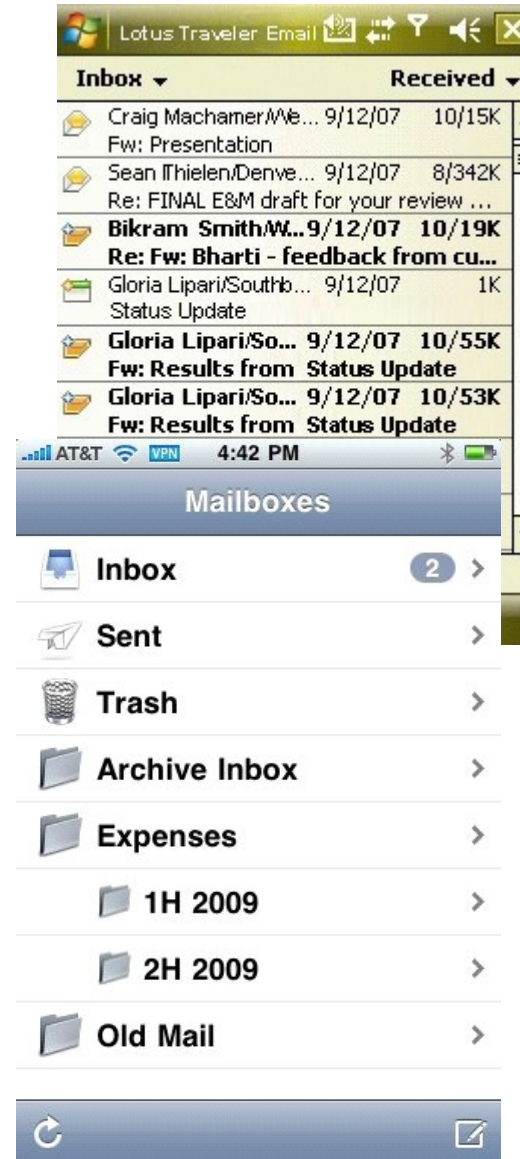


Agenda

- **Lotus Notes Traveler 8.5.3 Overview and System Requirements**
- New features and enhancements for 8.5.3
 - Android devices
 - Nokia devices
 - Apple iOS devices
 - Server
- Deployment Best Practices

Overview-What is Lotus Notes Traveler?

- Automatic wireless delivery of Lotus Domino :
 - Email and PIM(Calendar, Address Book, To Do, Journal)
 - Security Settings
- Two-way synchronization Over the air client or profile installation
- Works over all wired / wireless connections (CDMA, GPRS, GSM,WiFi, etc.)





Overview-Recent Traveler Releases

- **Traveler 8.5.3 on Oct 4, 2011**
- **Fixpack :**
 - **8.5.2.4** Oct 2011
 - 8.5.3.1 Nov 15,2011
- **Enhancement/Fix List:**
http://www.lotus.com/idd/dominowiki.nsf/dx/Lotus_Notes_Traveler_APAR_listing

Server Requirements

Operating System

- Windows Server 2003 Standard/Enterprise/R2 (32 and 64 bit)
- Windows Server 2008 Standard/Enterprise (32 and 64 bit)
- Windows Server 2008 Standard/Enterprise R2 (64 bit)
- Red Hat Enterprise Linux?(RHEL) 5 and 6 Server (32 and 64 bit)
- SUSE Linux Enterprise Server (SLES) 10.2 (32 and 64 bit)
- SUSE Linux Enterprise Server (SLES) 11 (32 and 64 bit)

Requires Domino Enterprise or Messaging server

- Runs in 32-bit or 64-bit mode on Domino server

Remote mail server

- Domino 7.0.2 servers or above

Mail file templates

- Standard and iNotes version 6.5 and above

Client Requirements

- Apple Devices and Operating Systems:

- iPhone 3G, iPhone 3GS, iPhone 4,iPhone 4S
- iPad and iPad2
- iPod Touch
- Apple OS 3.x, iOS 4.x , iOS 5.x

- Android Devices

- Android OS 2.0.1 and above(including tablets and OS 3.x)

- Nokia Devices

- Nokia Series 60 3rd edition(including feature pack 1 and 2)
- Nokia Series 60 5th edition
- Nokia Symbian^3 edition **NEW**

- Windows Mobile Devices

- 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

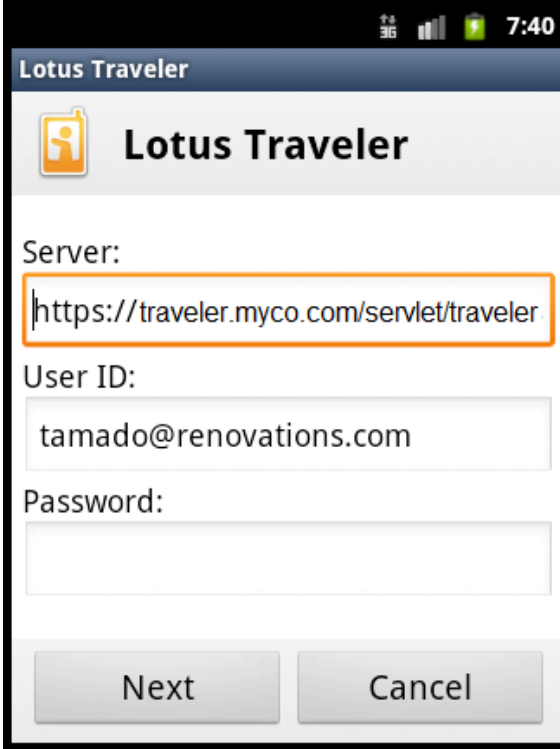


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Android – improved installation

- Single application (no separate Lotus Installer from previous releases)
- Features from Lotus Installer such as automatic client update now integrated into Lotus Traveler application
- If installing via built in Android browser, installation panels now pre-fill server name and user id
- Works with most browsers that use Android browser history features
- **Migrating from 8.5.2**
 - Old Lotus Installer will be removed as part of install process
 - Old Lotus Traveler is also removed, so data is refreshed on the device



Lotus Traveler

Lotus Traveler

Server:

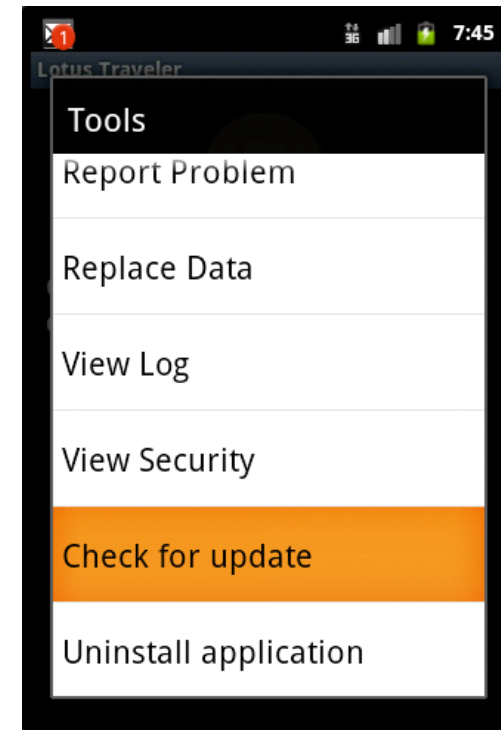
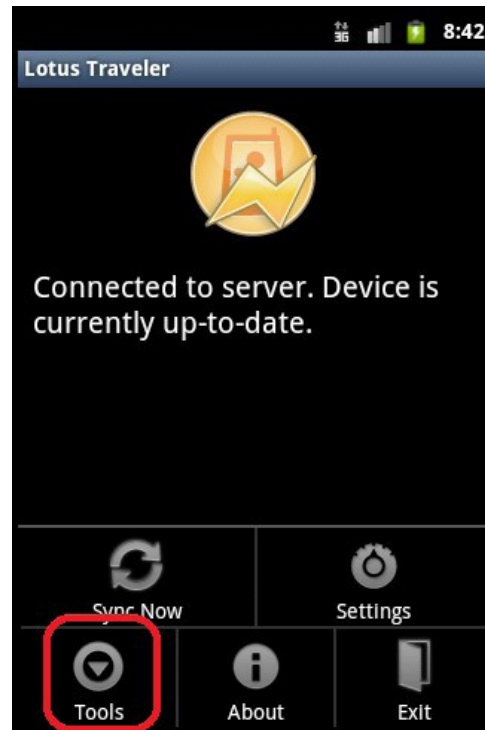
User ID:

Password:

Next Cancel

Android – improved installation (2)

- Lotus Traveler application now includes new options in the tools menu :
 - Check for updated software
 - Uninstall application
- Always uninstall using the menu option here vs. Android system uninstaller



Android – Calendar: Chair side meeting support

- Now supports chair side meeting actions
- Meeting owners can now take following actions from device
 - Create meetings with attendees
 - Reschedule meetings
 - Modify meetings
 - Cancel meetings

Calendar

Create Event

Event type:
Meeting

Subject:
Board Lunch

Location:
Phillipe's Cafe

When

Starts:
Mon, Jun 6, 2011

Ends:
Mon, Jun 6, 2011

Calendar

Required:

saman

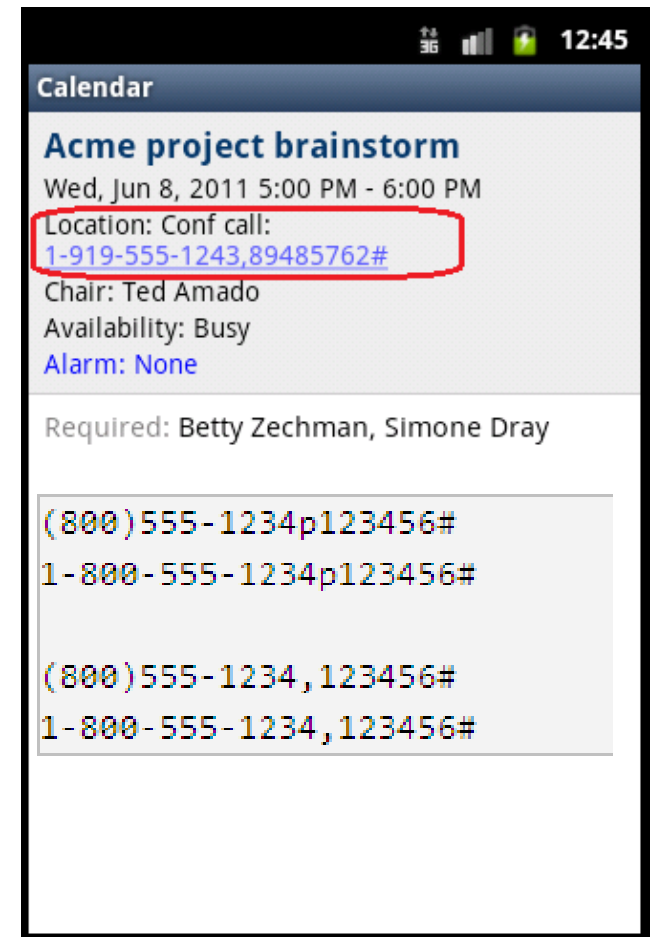
Search Results (1)

Samantha Daryn
SDaryn@renovations.com

saman Saman SAMAN

Android – Calendar: Tap to dial

- Phone numbers included in a calendar entry are now hot spots that when clicked will dial the number. Number can be included in fields:
 - Subject
 - Location
 - Description
- Supports conference dialing:
 - P and “,” (comma) characters interpreted as a pause
 - '#' to enter the conference code
 - ';' or 'x' to prompt user before sending codes



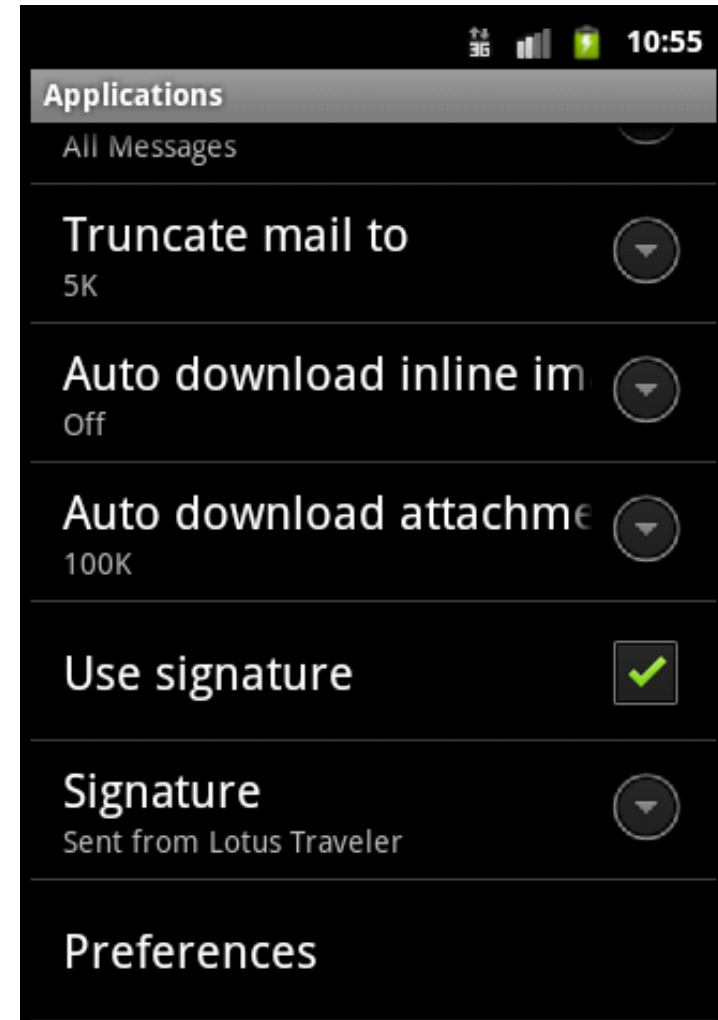
Android – Calendar: Miscellaneous improvements

- Week view now displays text (as much as display will allow)
- Performance improvements when navigating (swiping) between days
- Performance improvements when scrolling large calendars
- Revised menu experience for Android 3.x tablets
- Shortcut icon for unprocessed notices from your calendar application.



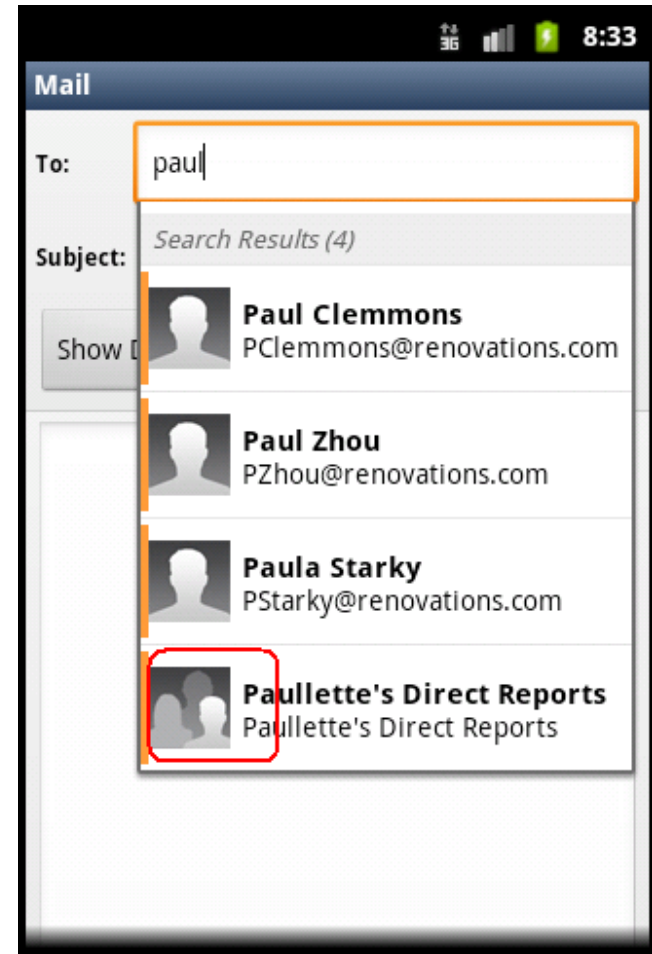
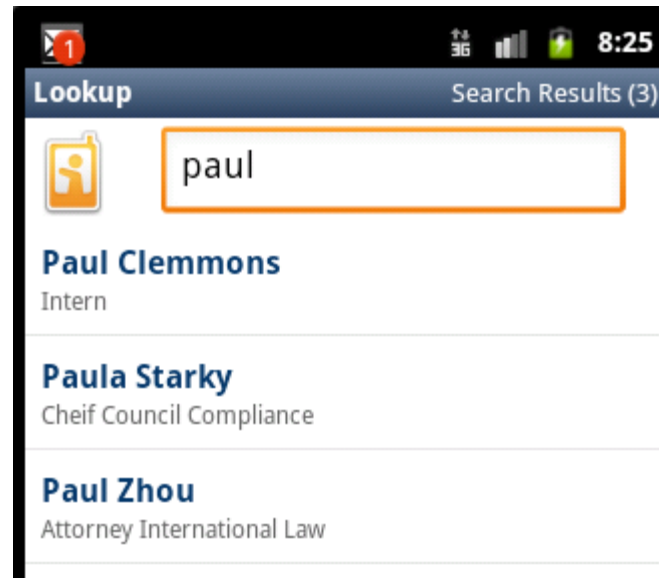
Android – Mail: Auto download filters

- Split the old auto download mail option into 2 new setting
- When enabled, if image or attachment is smaller than the filter setting, it is automatically retrieved from the server without requiring user action
- Auto download inline images
 - Off by default
 - Options for 5K, 25K, 100K, 500K
- Auto download attachments
 - 25k, 100k, 500k, 2M, or 10M



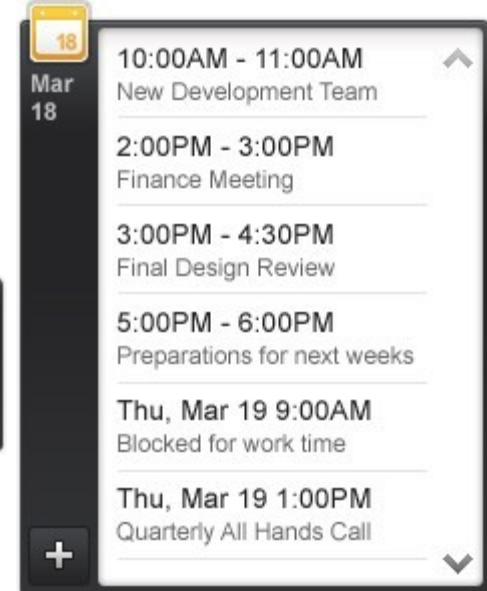
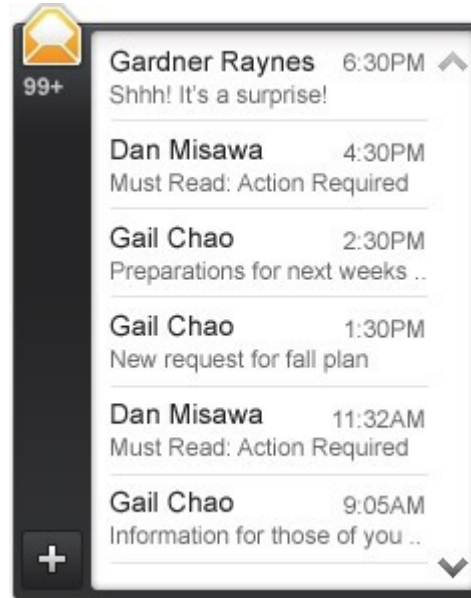
Android – Type-ahead Lookup

- Server lookup done automatically when composing a new mail or searching for a contact using the Lotus Lookup application
- Lookup results now display contact photo if available in local contacts
- Results display person, group or mail-in database silhouette if results contain different types



Android – Mail and Calendar Widgets

- Add widgets to one or more Android home screen
- Comes in large (3x3) and small(4x1) formats
- OS 3 tablet widget includes smooth scrolling feature
- Click mail or calendar icon to launch the respective application
- Open individual mail or calendar items by clicking the item
- Create new message or event by clicking '+' symbol



Apple iOS – Data only wipe

- Two remote wipe options are now available for Apple devices (Since 8.5.2.3):
 - Hard Reset Device
 - Lotus Traveler Application and Data

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

Device Name	User	Approval	Security Policy	Access	Wipe Options	Wipe Status
▼ Samantha Daryn/Renovations						
Apple-iPhone2C1	Samantha Daryn/Renovations	Not Required	No policy	Allow	None	
▼ Steve Williams/Renovations						
Apple-iPhone2C1	Steve Williams/Renovations					

Select wipe device options [?] [X]

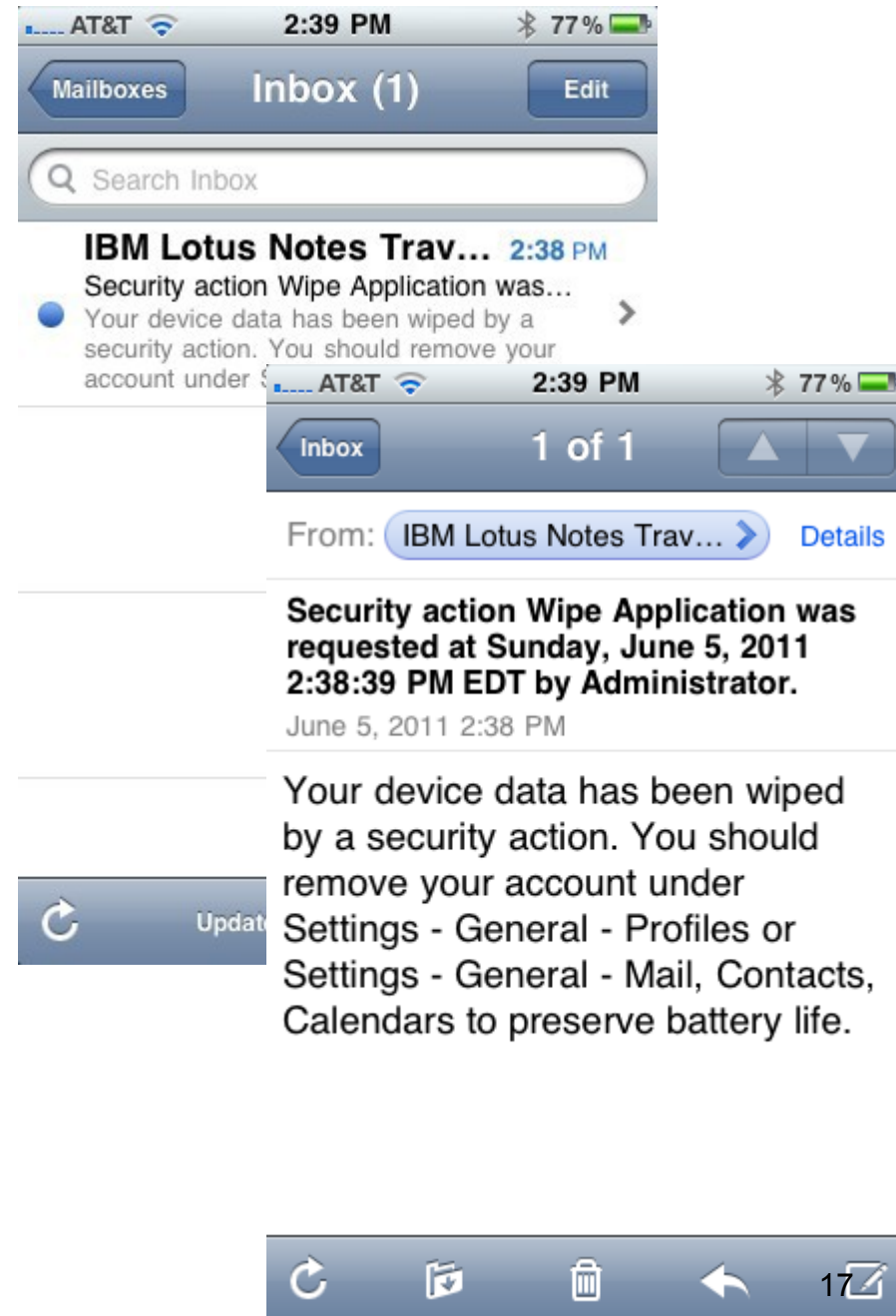
Select one or more options for this request.

- Hard reset device
- Lotus Traveler application and data

Apple iOS – Data only wipe (2)

Lotus Traveler Application and Data:

- Data is removed from device, but profile or account settings remain.
- As with all wipe operations, device cannot connect back to Traveler server until the administrator clears the wipe order
- Device user receives mail message on device indicating that wipe order was completed



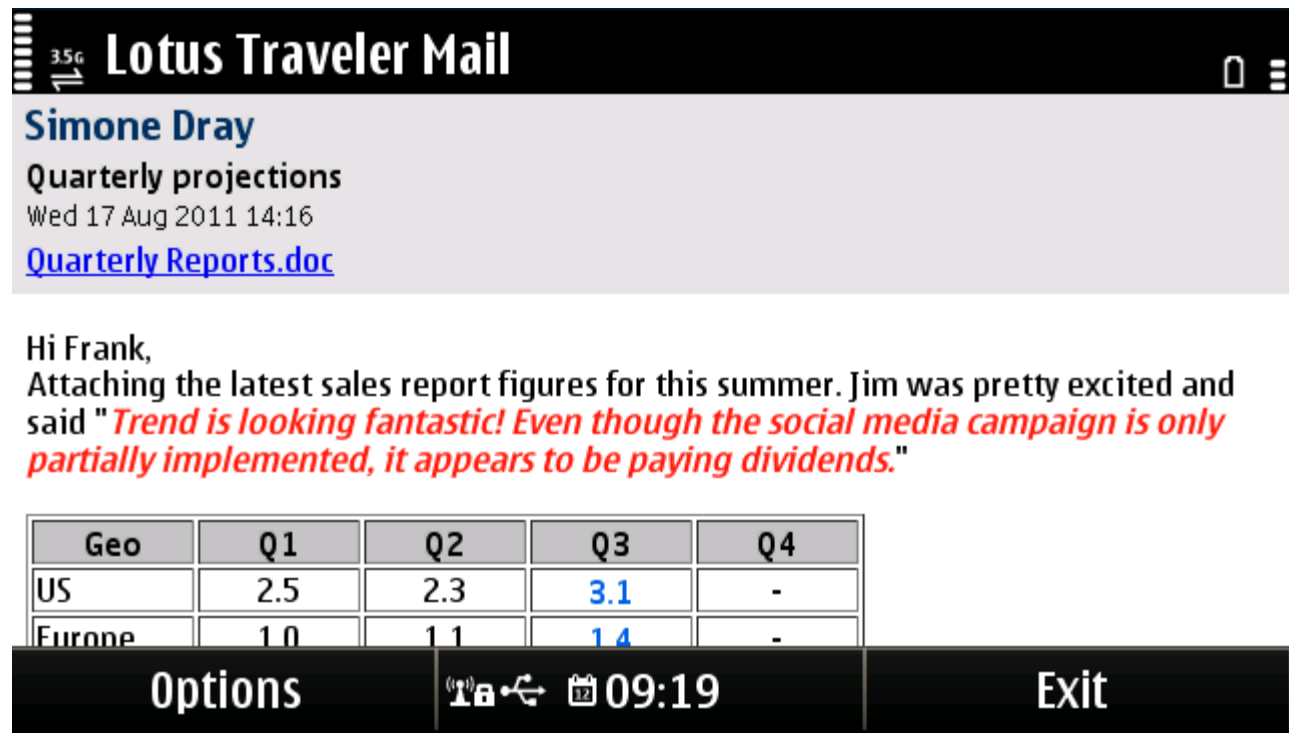
Nokia – Symbian^3 Support

- Symbian^3 devices now supported
- New SIS installation package created for S3 devices
- Device support includes (but not limited to)
 - Nokia E7
 - Nokia C7
 - Nokia C6-01
 - Nokia N8
 - Nokia Astound
- Some menu options rearranged to conform to Nokia style guidelines (applies to all Nokia platforms)



Nokia – Symbian^3 HTML Mail

- Symbian^3 devices will receive HTML formatted mail allowing a richer mail viewing experience
- Tables, fonts, colors now visible using the Lotus Notes Traveler mail client.



The screenshot shows the Lotus Traveler Mail interface on a Symbian^3 device. The header displays the signal strength, 3.5G, and the title 'Lotus Traveler Mail'. The email is from Simone Dray, titled 'Quarterly projections', dated 'Wed 17 Aug 2011 14:16', with a link to 'Quarterly Reports.doc'. The body text addresses 'Hi Frank,' and includes a quote: 'Attaching the latest sales report figures for this summer. Jim was pretty excited and said "*Trend is looking fantastic! Even though the social media campaign is only partially implemented, it appears to be paying dividends.*"'. Below the text is a table with columns for 'Geo', 'Q1', 'Q2', 'Q3', and 'Q4'. The table data is as follows:

Geo	Q1	Q2	Q3	Q4
US	2.5	2.3	3.1	-
Europe	1.0	1.1	1.4	-

The bottom of the screen shows a navigation bar with 'Options', a status bar with '09:19', and an 'Exit' button.

Nokia – Encrypted device policy

- Server policy can be defined to require that only encrypted Nokia devices are allowed to connect:
 - Prohibit unencrypted devices
- Only supported for Nokia Symbian^3 devices
- Requires Nokia Symbian “Anna” level OS release
- Device user must encrypt phone memory and mass storage using Nokia supplied utility

Lotus Traveler Device Settings : Default

Basics | Preferences | Assignment |

Sync | Filter Settings | Device Settings | Security Settings | Device Access |

Windows Mobile | Nokia | Apple | Android |

Device Security	Violation Action
<input checked="" type="checkbox"/> Require device password	Enforce
Minimum password length: 4	
Maximum times character repeats: 0	
<input type="checkbox"/> No adjacent numbers	
<input type="checkbox"/> Require alphanumeric	
<input type="checkbox"/> Upper and lower case	
Inactivity timeout (maximum): 30 minutes	
Password expiration period: 90 days	
Password history count: 8	
<input checked="" type="checkbox"/> Wrong passwords before wiping device: 7	
<input checked="" type="checkbox"/> Prohibit unencrypted devices	
<input type="checkbox"/> Storage card encryption	Report
<input checked="" type="checkbox"/> Prohibit devices incapable of security enablement	Enforce

Server – Mail Routing and Lookup

- Where the Lotus Notes Traveler server is not running on the same Domino server as mail services, Mail routing configuration is no longer required.
- The Lotus Notes Traveler server now uses the user's mail server's mail.box for all outgoing messages.
- Meeting notices no longer appear to be “sent by” the Lotus Notes Traveler server
- Corporate lookup (aka Name Lookup) requests are executed against the user's mail server's directory
 - Will be more consistent with a Notes client's “lookup” results
 - Change back to the old behavior by setting by:
NTS_TRAVELER_AS_LOOKUP_SERVER=true in notes.ini on Traveler server

Server – Mail Routing and Lookup (2)

- Lookup results now include Group names and Mail-in databases
- Lookup results now include Middle initial in search results for iOS devices

Customizing corporate look up:

http://www-10.lotus.com/ldd/dominowiki.nsf/dx/Corporate_lookup_settings_LNT853

Map Corporate lookup result to device:

- Mapping for Android, Windows™ Mobile and Nokia devices is done by customizing the file nameLookup-VCARD.xslt

http://www-10.lotus.com/ldd/dominowiki.nsf/dx/Customizing_the_VCARD_XSLT_file_LNT853

- http://www-10.lotus.com/ldd/dominowiki.nsf/dx/Customizing_the_ActiveSync_XSLT_file_LNT853

Server – Device Approval Policy

- If policy is enabled, administrator must explicitly approve end user device before it can access the Lotus Traveler service
- Set “number of devices to allow before approval” to zero if all devices must be pre-approved
- Optional address list can be used to notify administrator by mail when device approval is pending

The screenshot shows the 'Lotus Traveler Device Settings : Default' configuration page. It features a navigation bar with tabs for 'Basics', 'Preferences', and 'Assignment'. Below this is a secondary navigation bar with tabs for 'Sync', 'Filter Settings', 'Device Settings', 'Security Settings', and 'Device Access'. The 'Restrict Device Access' section is highlighted in blue and contains the following settings:

- Require approval for device access
- Number of devices to allow per user before approval is required:
- Optional: Addresses to notify when approval action is pending:

Server – Device Approval Policy (2)

- Lotus Traveler administration database keeps track of approval status
- Administrator uses Change Approval action to approve or deny Sort by Approval column
- User receives email notification once device is approved (or denied)
- For migration case, all existing devices from 8.5.2 or earlier are considered approved

The screenshot displays the Lotus Traveler administration interface. On the left is a navigation tree with categories like Mail Users, Mail Routing Status, and Reports for Orion/Renovations. The main area shows a table of devices with columns for Device Name, User, Approval, Security Policy, and Access. A dialog box titled 'Select approval action?' is overlaid on the table, prompting the user to choose between 'Approve' and 'Deny' for a selected device. The 'Approve' option is currently selected in the list.

Device Name	User	Approval	Security Policy	Access	W
Samantha Daryn/Renovations					
Apple-iPhone2C1	Samantha Daryn/Renovations	Pending	No policy	Allow	N
Steve Williams/Renovations					
Apple-iPhone2C1	Steve Williams/Renovations	Approved	No policy	Allow	N

Select approval action?

Select the approval action to take for the selected device.

Approve
Deny

OK
Cancel



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Best Practices – Capacity Planning

Updated capacity planning and machine guidance information

- Operating System selection and Domino Server application type (32-bit vs. 64-bit)
- CPU speed and capacity
- Disk storage configuration
- Physical RAM requirements
- Back-end network speed
- http://www.lotus.com/ldd/dominowiki.nsf/dx/Capacity_planning_guidelines_for_Lotus_Notes_Traveler_LNT853

Install Lotus Notes Traveler on a 64-bit operating system

- Access to > 2GB virtual memory is critical in larger mobile user populations (> 300)
- Review java memory usage and consider setting maximum java memory to 1024 MB or higher for Lotus Traveler task to handle spikes

Best Practices – Capacity Planning(2)

■ Co-locating Lotus Notes Traveler with other applications

Avoid running multiple applications on the Lotus Notes Traveler server, unless the deployment of users on the server is very small, typically less than 100 users.

■ Monitoring resource usage

- memory utilization:
tell traveler mem
- HTTP thread usage:
show stat http.*

The screenshot shows the configuration interface for Lotus Notes Traveler. The top navigation bar includes tabs for Basics, Security, Ports..., Server Tasks..., Internet Protocols..., and MT. Below this, there are sub-tabs for HTTP, Domino Web Engine, DIIOP, and LDAP. The 'Basics' tab is selected and highlighted in purple. The configuration details for the Basics tab are as follows:

Host name(s):	
Bind to host name:	Disabled
DNS lookup:	Disabled
DNS lookup cache:	Enabled
DNS lookup cache size:	256
DNS lookup cache found timeout:	120 seconds
DNS lookup cache not found timeout:	240 seconds
Number active threads:	100

The 'Number active threads' value of 100 is highlighted with a red rectangular box.

Best Practices – HTTP

- Verify HTTP thread allocation matches expected number of active devices
 - Set HTTP Active Threads to 1.2 times active devices
- Domino HTTP threads are allocated at startup, so do not allocate more threads than needed
 - Extremely critical for 32-bit systems which have limited memory thresholds
- If using a proxy, validate it has enough HTTP threads to handle device client push
 - Similar to Domino HTTP server, proxy must be able to handle long-poll push transactions from devices

Best Practices – Database defragmentation

- Internal database's files are stored under the data\traveler\ntsdb directory. Not recommended to delete the ntsdb folder on the system.
- A command to defragment Lotus Notes Traveler's internal database to compact and optimize the database for performance.
- The defrag feature can only be run at startup. Recommended to run once a month.
- How to run defrag:
 - 8.5.2.4, 8.5.3.1 and later releases:
Add NTS_DEFRAG_INTERVAL_DAYS to the notes.ini
 - 8.5.2.2, 8.5.2.3 and 8.5.3.0 releases :
load traveler -defrag
- http://www.lotus.com/ldd/dominowiki.nsf/dx/Lotus_Traveler_Database_Defrag

Best Practices – Server Performance

- Performance Benchmark report(8.5.2)
 - <http://www.ibm.com/developerworks/lotus/library/notes852-trav-perf/index.html>
 - 8.5.3 benchmark testing was slightly better than 8.5.2, but not enough to warrant a new report
- Review Lotus Traveler tuning recommendations :
http://www.lotus.com/ldd/dominowiki.nsf/dx/Tuning_performance_of_the_server_LNT853

Best Practices –Control Server Access

- Restrict access to the Lotus Traveler service
 - Access server: Users or groups
 - Device types (ALLOWED_USER_AGENT_REGEX in NTSCConfig.xml)

[http://www-](http://www-10.lotus.com/ldd/dominowiki.nsf/dx/Restricting_access_by_device_category_LNT853)

[10.lotus.com/ldd/dominowiki.nsf/dx/Restricting_access_by_device_category_LNT853](http://www-10.lotus.com/ldd/dominowiki.nsf/dx/Restricting_access_by_device_category_LNT853)

May need to update as new devices are released

- Traveler user web page can be configured to add/remove options
 - NTS_ENABLE_* notes.ini parameters (http://www-10.lotus.com/ldd/dominowiki.nsf/dx/Notes.ini_settings_LNT853)



Roadmap Items – iOS5 and HA Support

- Apple iOS 5 support
 - Lotus Notes Traveler supports the same mail, calendar and contacts features that are supported in iOS 4.
 - New capabilities such as Reminders, device side mail folder management and mail follow-up flag support are being considered but are not yet available.
- High Availability support Currently under development. Targeting for a future release.

References: tell traveler <command>

- Reset <device> <user> - Force a synchronization reset for a user's device.
- Delete <device> <user> - Delete Lotus Traveler data for a user's device.
- Dump <user> - Dump the information for a user to a file.
- Mem Show - Displays current memory usage.
- Show <user> - Display all the information for a user and the user's devices.
- ShowActive - Display the users who are currently syncing.
- ShowUsers - Display all registered users.
- Shutdown - Stop accepting new work requests, allow current work to complete, and then Quit.
- SystemDump <options> - Save the current Lotus Traveler system state.
 - Use 'Help' for more options.
- Version - Display the version of the Lotus Traveler Server.
- http://www-10.lotus.com/ldd/dominowiki.nsf/dx/Console_commands_LNT853
- http://www-10.lotus.com/ldd/dominowiki.nsf/dx/Tell_command_considerations_and_examples_LNT853

References

- Lotus Notes Traveler Product Page
<http://www.ibm.com/lotus/lotusnotestraveler>
- Latest Recommended Maintenance
<http://www.ibm.com/support/docview.wss?uid=swg24019529>
- Domino Wiki with Lotus Notes Traveler Information
<http://www.lotus.com/ldd/dominowiki.nsf>
- Lotus Traveler Support FAQ
<http://www.ibm.com/support/docview.wss?uid=swg21450615>
- Traveler Companion FAQ
http://www.lotus.com/ldd/dominowiki.nsf/dx/Traveler_Companion_FAQ
- Lotus Traveler APAR Listing by Release
http://www.lotus.com/ldd/dominowiki.nsf/dx/Lotus_Notes_Traveler_APAR_listing

References

- Lotus Notes Traveler capacity planning guidelines
http://www.lotus.com/ldd/dominowiki.nsf/dx/Capacity_planning_guidelines_for_Lotus_Notes_Traveler_LNT853
- Lotus Greenhouse
<http://greenhouse.lotus.com>
- Lotus Traveler security enablement library (distributed by Nokia)
<http://www.nokia.com/lotustraveler>
- Lotus Traveler 8.5.3 system requirements
<http://www.ibm.com/support/docview.wss?uid=swg27022506>

Q&A

