

XPERIA



Messaging

White paper
April 2011

Sony Ericsson
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This document

This Sony Ericsson White paper is intended to give enterprise users an overview of specific smartphone features and provide details in relevant areas of technology.

This document contains specifications for Sony Ericsson smartphones launched on Android™ 2.3 or later.

Document history

Version

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Sony Ericsson website

For more information about Sony Ericsson business propositions, go to www.sonyericsson.com

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Table of contents

Introduction	4
Feature overview	4
Email access	5
Email application features	5
Specifications	5
Security	6
Setup	6
Microsoft® Exchange ActiveSync®	7
Features	7
Email features	7
Calendar features	7
Contacts features	8
Specifications	8
Security	9
Setup	9
Connection overview	9
Real time communication	10
Google Talk™	10
Setup	10
Timescape™	10
Specifications	10
Trademarks and acknowledgements	11

Introduction

There are many ways to stay connected and keep in touch using the Sony Ericsson Android™ smartphones. This document shows what features are available in the smartphones to optimize your communication and enable you to use messaging efficiently, to perfectly suit your corporate needs.

With the native Android™ **Email** application you can access, synchronise, send and receive your corporate email messages from Microsoft® Exchange as well as your personal email messages from Gmail™ or other email accounts. This universal one-stop-inbox concept extends to both **Calendar** and **Contacts**, allowing you to access multiple calendars and contacts from different accounts.

The smartphone also offers real time communication through the chat application **Google Talk™** and through the social application **Timescape™** – fast and efficient ways to keep you connected and up to date with your colleagues and your daily correspondence.

Sony Ericsson Android™ smartphones are highly adjustable, giving you the option to add, delete or extend the applications. With **Android Market™** you can discover over 150,000 downloadable applications to customise the smartphone and make it even better.

Feature overview

 <p>Email access</p> <ul style="list-style-type: none"> – Microsoft® Exchange ActiveSync® – POP3 – IMAP4 	 <p>Microsoft® Exchange ActiveSync®</p> <p>Direct push in:</p> <ul style="list-style-type: none"> – Email – Calendar – Contacts 	 <p>Real time communication</p> <ul style="list-style-type: none"> – Google Talk™ – Timescape™
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Email access

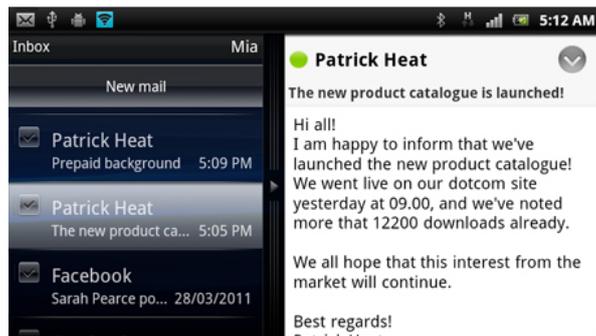
You can add and access any standard email account using the native Email application. The smartphone supports Microsoft® Exchange ActiveSync® email accounts as well as the POP3 and IMAP4 protocols.

The Email application allows you to access all your different email accounts and their corresponding messages in separate account inboxes or in one combined inbox. This way you can have both control and overview of your email messages.

For example, if you work for multiple companies you can have your smartphone configured to access email from each company separately to keep them apart. Or you can use different email accounts when communicating externally, for example one for sales questions and one for support.

Email application features

- Multiple accounts/combined inbox
- Auto-discover account
- Predictive address completion
- Synchronisation interval selection
- Preview pane
- Signature
- Attachments
- Add Cc/Bcc



Specifications

Protocols	Microsoft® Exchange ActiveSync® POP3 IMAP4
Formats supported	Text, HTML
Security	SSL/TLS SSL/TLS accept all certificates
Maximum attachment size	No limitation when downloading received attachments. 5 MB when sending attachments.

Security

Webmail applications automatically use SSL/TLS encryption to enable a secure communication channel between your smartphone and your corporate network. Microsoft® Exchange ActiveSync® also supports secure HTTPS for SSL/TLS.

Setup

These are the requirements for network configuration:

- Open the appropriate email port(s) in the firewall.
- The communication between the proxy server and the back-end server should preferably be set to SSL. If your company runs Intrusion protection systems you might need non SSL traffic.
- Digital certificates on the network server should be signed by a trusted certificate authority.
- If the settings for the email account cannot be downloaded automatically, complete the setup manually.

In your smartphone you configure an email account in the Email application by entering your email address and the password. The Auto-discover feature will search for your account. If your account is not found, you will need to enter the incoming and outgoing server settings and domain manually.

Microsoft® Exchange ActiveSync®

The Sony Ericsson Android™ smartphone uses the Microsoft® Exchange ActiveSync® client to connect with your Microsoft® Exchange Server and synchronise with your corporate email, calendar and contacts. To benefit from this two-way synchronisation in a truly effective way, activate the direct push option and have actions and changes that you perform in your smartphone or on your computer immediately reflected in the other device.

Your corporate information such as email, calendar events and contacts, is automatically placed in the corresponding applications in your smartphone. In the Email application you can also access contacts in your company's global address book (Global Address List).

Microsoft® Exchange ActiveSync® also allows Exchange administrators to push corporate IT policies to the smartphones.

Features

Email features

- Direct push or set sync interval
- Global Address List (GAL) lookup
- Predictive address completion (GAL)
- Two-way synchronisation with server
- Preview pane
- Add media attachments (photo, video, sound)
- Read attachments
- Save attachments to memory card
- Add Cc/Bcc

Calendar features

- Direct push or set sync interval
- Two-way synchronisation with server
- View participants
- View participant replies
- Accept/decline/tentative
- Reminders
- Attachments



Contacts features

- Direct push or set sync interval
- Two-way synchronisation with server
- Send as V-cards
- Select account type for new contacts
- Photo support



Specifications

Synchronisation items	Email Calendar Contacts
Supported server versions	Microsoft® Exchange Server 2003, 2007, 2010
Security options	Enforce password Remote wipe Require password Minimum password length Require alpha-numeric password Allow simple password Number of failed attempts Timeout without user input
Protocol	RPC (Remote Procedure Call) over HTTP with TCP/IP
Encryption	Secure HTTPS for SSL/TLS
Authentication	Basic

Security

IT policies are set by an administrator in the Microsoft® Exchange Server and dictate, for example, whether the user must enter a password to activate the smartphone, how long the password should be and rules for the combination of numbers and letters.

When the smartphone connects to the Microsoft® Exchange Server the user is asked to accept the IT policies. If the user accepts, and the smartphone is compliant to the IT policies, the user is permitted access to the server and its contents.

Setup

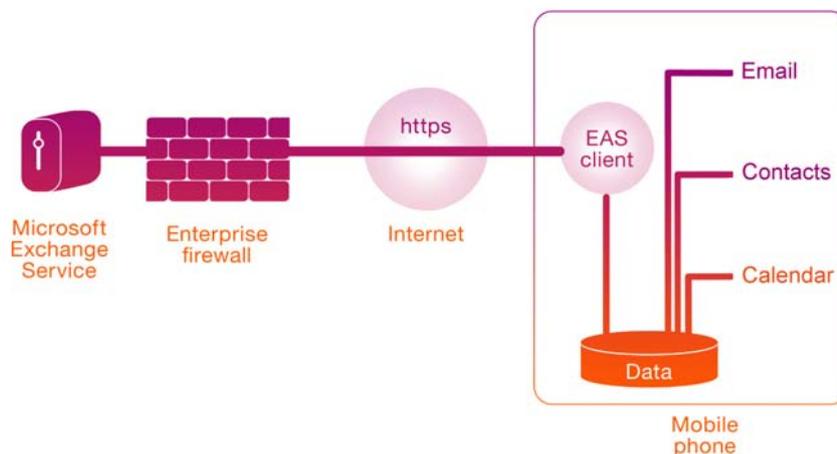
Microsoft® Exchange ActiveSync® is built in to Microsoft® Exchange Servers and is designed to work with different types of networks, operating over any open Internet connection.

Network configuration implementations

- Open port 443 in your corporate firewall.
- Install the server certificate on the front-end server (if applicable).
- Enable SSL for Microsoft® Exchange ActiveSync® virtual directory in IIS (basic authentication).
- Your DNS should return a single, externally routable address for Internet and Intranet clients, to enable the same IP address to be used for server communication when both connections are active.
- If you have a Microsoft® Internet Security and Acceleration (ISA) Server:
 - A server certificate should be installed
 - Update the public DNS to resolve incoming connections
 - Create a web listener and an Exchange web client access publishing rule

Connection overview

Schematic overview of how a basic Microsoft® Exchange ActiveSync® connection works.



Real time communication

Experience real time communication with your smartphone. Whether chatting using Google Talk™ or staying constantly updated with Timescape™ – your Sony Ericsson Android™ smartphone keeps you connected with your colleagues, friends and family in a fast and efficient way.

Google Talk™

Google Talk™ is a web-based chat application that is built in to your smartphone. You can send and receive instant messages with other Google Talk™ users on a computer or a phone. The Google Talk™ contact list is synchronised with your Gmail™ contact list, but you can also manually add other users to it.

When you have signed in to your Google™ account in the smartphone, other Google Talk™ users can then see that you are online and available.

Setup

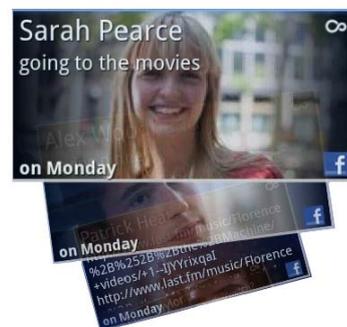
Google Talk™ is automatically synchronised with the Google™ account that you signed in to when setting up your phone. Google Talk™ uses the open protocol XMPP.

Timescape™

The Timescape™ application collects all your communications in one view.

Every text and multimedia message, missed call and Facebook™ update appears as a tile in a chronological flow on the screen, so you do not have to open several applications to see what's going on.

Use the Infinite button to see all your conversations with a person in one view.



Specifications

Possible Timescape™ sources	Email Text and multimedia messages Missed calls Facebook™ Twitter™
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