

Component	Feature	Item	Description	Details
Administration Web Application	Login management	Login	Each user is identified by a unique username	Min length 8
		Password	One way hash algorithm. Only hash code stored. Password must attain a minimum score to ensure security. Score is calculated using the password length and number of lower/upper case, numbers and special characters.	Min length 8
		Force password change on login	Admin can set an option on a user's account to force them to enter a new password.	Automatic for initial generated password
		User account Auto lock	Locking by admin More than 3 attempts locks account automatically	Admin can unlock account
		Password recovery	Standard E-mail recovery mechanism	
	Localization	GUI	The complete user interface, as well as PDFs are localized Languages	User can choose language. Default is taken from the service provider German, English, more languages will be supported in future releases
		Data	All dynamic names, descriptions etc are localized and stored in the database	
	Encryption	Connection	All interaction with the server can be encrypted using HTTPS	Inside firewall there it is not always necessary to use HTTPS.
		Database	All sensitive data is encrypted	AES Encryption on DB content
	Message Overview	HL7 / Exchange messages	Overview of received messages, displaying status and recipients	Message details are also available including the list of recipients, error messages, mapped properties etc.
	Administrators	Administrator management	Add, remove edit Administrator	
	Exchange	Exchange Server config	Exchange configuration management e.g. URI, default User and default behaviour e.g. default mapping template	Proxies supported

	Connector	HL7 Connector management	Receive and send URI	
	System	System management	License, default language, number of days to retain messages	Groovy script editing for more control over mapping
	Server	Monitoring	Displays current statistics for today e.g. number of messages received and successfully mapped	Also possible to use JMX to monitor using e.g. Nagios
	Property Mapping	HL7 Segment extraction. Regular expressions	Extraction of e.g. HL7 segment or from free text in an appointment	HL7 Example: mailBoxID -> RESOURCES/PERSONNEL_RESOURCE/AIP-3-1 Excnahnge Example: Patient -> ^Patient:\s*((?:(!^\w+:.)+)\$
	Template	Mapping	Velocity Template to construct appointment Text bases on the mapped properties and fixed text	Multiple Templates can be defined and associated with a corresponding Exchange server or specific mail box(es)
	MailBox	MailBox Management	Configure mail boxes behaviour e.g. exchange server, template, private messages, synchronization directio, etc	Associates an external ID e.g. HL7 resource ID with an MS-Exchange mail box.
	Preferences	Administrator preferences	Change password, language and personal details e.g. name etc	Mailboxes can be imported using a simple CSV file
Message Processor (Java Application)	Process running 24x7	Processor	The process runs as a java application and continually listens for e.g. HL7 messages and maps appointments to and or from exchange using the configuration	Runs as a daemon processing any messages received from the HL7 connector and or scans Exchangemail boxes for new appointments
General	Auditing		Complete trackin of who/when created and changes of all objects in the database	
	Concurrency		Administrators can safely work simultaneously	
	Automatic Housekeeping		Automatic deletion of appointment after a certain duration e.g. delete any appointments & cancellations that are older then 90 days	

	Monitoring	JMX	Possible to use JMX to monitor the message processor including details of number of messages received, processed, in error, etc	Can be monitored using e.g. Nagios
Virtual Machine (VM Ware Image)	Technology	MS-Exchange	Version 2007+	Uses Exchange Web Services for Communication
		HL7	HL7 v2.5	
		Supported	Internet Explorer 6.0+	Works on all platforms (Win, linux, OSX).
		Browsers	Firefox 3.5+	JavaScript must be enabled (AJAX based
			Safari 4.0	application)
		Server	Tomcat 6.0	JAVA 1.6
		Database	MySQL	Oracle, Postgres and MS/SQL also supported if
				requested
		Server OS	Linux/Windows/Unix	