



Pacific Knowledge Systems

RippleDown 8.2 New Features Guide

This document outlines new features of RippleDown version 8.2

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Intended Use

The RippleDown Software is a decision support system intended to support staff of healthcare organisations in the auditing and/or interpretation of patient data and in the generation of patient reports and/or workflow actions. The criteria it applies is determined by subject matter experts employed by individual clients and is specific to each client site. The software does not contain any pre-programmed clinical information or any inherent diagnostic functionality.

The RippleDown Expert module is intended to be used purely as a decision support system that provides complementary reports for patient data to qualified individuals based upon established rules set up by relevant trained customer domain experts. It is intended that the clinicians receiving reports based on patient results will consider the report in conjunction with all current and previous patient history, and apply their own judgement when determining patient management. It is intended that the clinician does not rely solely on the existence of a report from RippleDown for the management of a patient.

It is the responsibility of the licensee to use the product in accordance with its intended use. In support of this, it is recommended domain experts include a statement consistent with the following on all reports.



“This report has been generated using clinical decision support software. This report is intended to provide adjunctive information only and should not replace clinical judgement.

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Password requirement improvements

The following improvements have been implemented regarding password administration.

Expiry Period

Administrators may now set a password expiry period through the Administrator module under Security (see fig 1). This option can be set from 1 to 999 days or disabled so that passwords do not expire, dependent on the client organizational preferences. The default setting is 90 days.

To change this setting, use the menu **Tools | Edit server settings | Security | Password expiry period**.

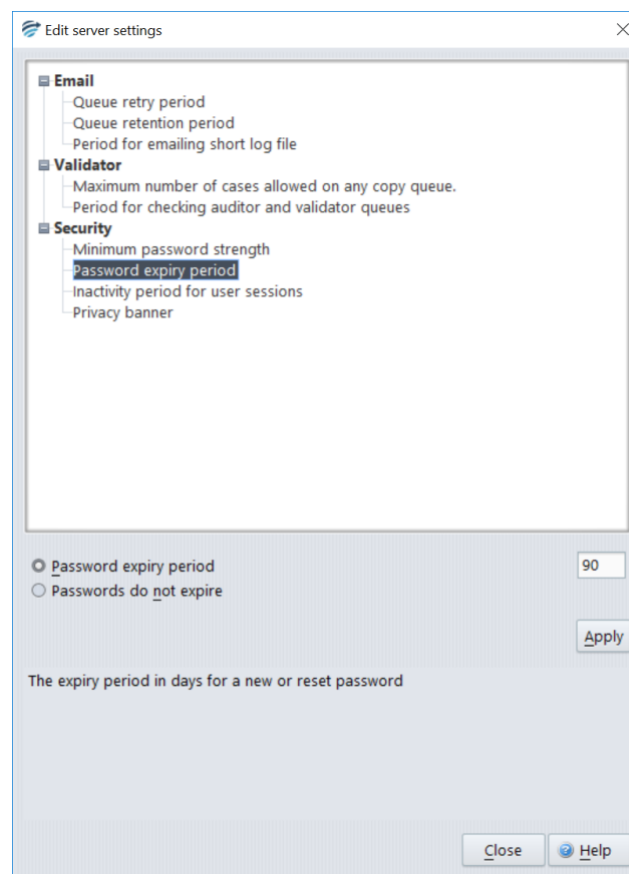


Figure 1: Password expiry period

Once set, the password expiry period will apply to all RippleDown modules (Validator, Knowledge Builder, Data Entry Auditor, Administrator, Translator) and users.

Once the period is set, a user will be alerted of the expiration of their password upon first log in post expiration. This expiration event is logged by the server.

Password Strength

Administrators may now set a variable password strength level for users. The default of the installation is set to 'moderate' and this option can be adjusted as necessary in order to align with client's organisational security protocols.

Presented under security settings (see fig 2) by accessing **Tools | Edit server settings | Security | Minimum password strength**, the option may be selected for one of 5 levels.

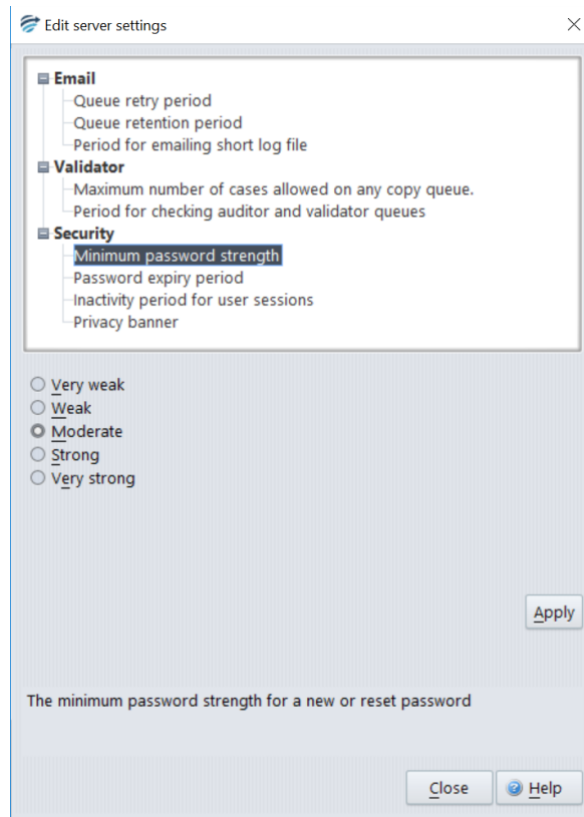


Figure 2: Minimum password strength for the installation

During password setting or resetting, a strength indicator will alert the user of the strength of their password (see fig 3).

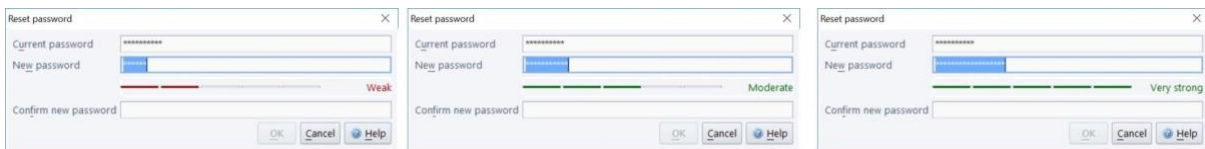


Figure 3: Password strength indicator

Upon confirmation of the new password the OK button becomes enabled only if the strength and match criteria are met.

Please note: Passwords cannot be reused within the installation.

Web Report Validator

A new Web Report Validator is now available. The Web Validator can be used with any browser.

The screenshot shows the RippleDown Web Validator interface. At the top, there's a search bar with the ID '11289023' and a status message: 'Autovalidation level: 0%. The report is not allowed for autovalidation.' Below this, patient information is displayed: MRN: 29242, Given: SJBTJHNMV, Sex: F, Yrs: 62, DOB: 18 Jun 52. There are 'Refer' and 'Accept' buttons. A text area contains a report: 'HbA1c remains above the general target of < 7% (< 53 mmol/mol) for treated diabetes. NHF guidelines indicate this patient has increased absolute risk for CVD (>15% risk of CVD within 5 yrs). For info see www.cvdcheck.org.au.' Below the text area is a table of lab results.

Attribute	Range	5 Nov 2012 8:29 am	4 Feb 2013 8:20 am	28 May 2013 9:00 am	29 Jun 2013 4:00 pm	7 Aug 2013 8:10 am	21 Nov 2013 8:10 am
LabNumber		10971234	10968877	11388286	11598919	11388697	1175802
Cholesterol	< 5.5	6.1*	6.6*			6.4*	5.6*
Triglyceride	< 1.5	0.7	1.0			1.1	1.0
HDL		2.2	1.9				1.8
LDL		3.6*	4.2*				3.3
RandomGlucose					17.0*		
HbA1c	4.0-6.0	8.2*	8.2*	7.9*		7.7*	7.5*
TSH	0.40-4...	2.51	2.89				2.59
CollectedDate		05 Nov 12	04 Feb 13	28 May 13	29 Jun 13	07 Aug 13	21 Nov 13
Notes		WT LOSS, TYPE 1 DIA...	T1DM	T1DM	HEADACHE/ DISCOM...	T1DM	TDM1
Ordered		LFT, UE, LIPP, TFT, GH...	UE, LIPP, TFT, GHB, M...	GHB	UE, RGLU	CT, GHB	UE, LIPP

Please see the RippleDown Web Validator guide for more information.