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**RWS 2.0.12.0**  
**Release Notes**  
**7/21/2010**

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## Overview

RWS 2.0.12.0 is a maintenance revision provided for system test at Sterling VA and other stations. RWS Build 2.0 (Build 2) is a maintenance revision to the software correcting numerous issues with the RWS Build 1.2. It contains corrections for numerous issues with RWS Build 1.2 as well as other improvements. For details on RWS software description and platforms supported, please refer to RWS User Manuals.

## What's New in RWS 2.0.12.0

1. Sustainability improvement. Migrated most of the program to the C# language, and it now uses the Microsoft .NET 3.5 Framework. This improves software compatibility with future versions of the Windows operating system, and also gives a Windows XP look and feel to the user interface. A new, more efficient third-party grid library (SynCFusion) is now being used.
2. The Microsoft Jet database engine (Access format) was replaced by Microsoft SQL Server Express 2008, providing more robust database functionality. This should result in successful data recovery following catastrophic events such as power failures. Older database formats are automatically upgraded when imported into RWS.
3. New plot and workspace functionalities.
4. Implements domain accounts and use of Active Directory to control user authentication and enforce a nationally standardized security configuration. This will be used for monitoring and updating the systems via National Oceanic and Atmospheric Administration Wide Area Network (NOAAnet) at each upper air facility associated with a Weather Forecast Office (WFO).
5. Supports new radiosonde and SPS types.
6. Archive Utility automates NCDC data transfer.
7. User Interface Changes.
8. Data Processing Changes.
9. Status message changes.
10. Check message changes.
11. RWS Section 508 compliance changes:
  - Supports keyboard-only operation, provides special Section 508 mode on a per user basis to display additional symbols in tables to supplement color coding.
12. Hardware status reporting improvements:

- Provides additional status information (English explanation versus only the code or bit values)
- LAN status changes reported as they occur, not just when starting.

**Known Issues**

None

**The following Impact 1 and 2 SIRs have been resolved in this release:**

<b>From RWS 1.0 Issues Reported</b>	
<b>SIR No.</b>	<b>Summary</b>
1731	Observer unable to recover a flight after power loss
2835	LWX--LDAD passwords not encrypted in RWS Flight MDB files
2857	LWX--RWS locked up when flight terminated during processing of marked data
3168	Predetermined Termination Level - Collect SPS Smoothed Winds
3170	Coded TTDD levels with increasing pressure
3279	RRS s/w fails to detect pressure sensor failure
3419	Possible error in showalter index
3438	Selectable WMO Coded Message Transmission routes

<b>From RWS 2.0 Development and Testing</b>	
<b>SIR No.</b>	<b>Summary</b>
625	Exception when flight manually terminated; AAS during TF
781	Exception when user Closes, after release detected, for do 2nd release
785	During Post Release SFC Observation. Flight -> Close causes Unhandled Exceptions
793	Clicking twice on the New Insert icon in the Open Workspace or Save Workspace Window causes an Exception.
804	Max wind not plotted correctly
817	Fatal Exception when closing flight
819	Flight Summary not viewable
820	PDS processing delayed by pop-up message
867	Opening Preflight Info in Rework of Flight causes Fatal Exception
872	"New UPS Status" pop-up reappears continually every few seconds.
873	RWS has an fatal exception when attempting to edit the LDAD info in the Station Data.
898	RWS had a Fatal Exception in XDP Postflight.
901	The processed data table was not available after release and lagged raw PTU
903	In preflight in the TRS Display, the Scan feature fails quickly the first time it is clicked., but works the second time.
915	Coded messages display window empty when "Last Coded" selection made
917	S/w inactive if user selects "terminate"

942	Errors in SPS Reading of PTU and GPS Data
946	Hardware Manager Status Display RSOIS Communication Error
1036	Exception occurs when using
1040	Unable to change termination time
1056	Update Station Data for site 69990
1091	RWS has fatal exception during Benchmark 1.6.4
1110	Repeat of check message when refresh made on Flight Summary
1135	Software not closing correctly
1191	Could not point or tune the TRS antenna during preflight
1192	Unhandled Exception error during CRT
1200	Fix: the interface to LDAD can login but not transmit
	LAN Connection not available w/o a phone number entered in the LDAD Data
1261	Display. Phone Connections not available at all.
1336	Coding error when reworking flight from Reno -- no wind smoothing
1339	Increasing pressure level in Levels table
1354	Interpolated Pressure data not logarithmic
1357	Software failure when received PTU table displayed
1364	Noticeable lag-time in loading RWS.NET when connected to NOAA Net
1372	Applying User Edits slideout did not close and Flight Summary was not accessible
1378	Fatal Exception with grids, no columns available, during TP402B (plot functionality)
1379	Exception when View->Preflight and Message -> Code
1395	Possible error in winding finding near flight termination
1400	Overcurrent Errors Display and Prevention
1413	RWS hangs when plot is displayed with all parameters turned off
1421	Cannot Receive Data When Initiating New Live flight without Exit RRS
1431	Cannot start live flight if windows assistive technology running
1449	Changes not committing Rework
1455	Exception while saving Raw PTU to a text file
1461	Unhandled Exception
1462	Sonde with 300C temps passes baseline – treat as Rejected
1481	Unhandled Exception while configuring PDS time interval
1487	Exception accessing the RawPos table