DW SPECTRUM V2.0 RELEASE NOTES

NEW FEATURES

- Region of interest allows for the ability to create single or multiple new views from an existing stream by drawing a rectangle over the desired area using the "new window" button (located on the original stream toolbar).
- "SpyGlass" is a one of a kind feature within region of interest that allows the zoomed in portion to be moved around a screen and even between original streams in the layout while maintaining the zoom window from one to the other seamlessly.
- **Events and actions**:
- Notifications have been completely redesigned and now reside on the right panel.
- New actions have been added:
- "Play Sound" – ability to play sound when event occurs. Sound can either be selected from an existing library or uploaded by the user.
- "Text to Speech" – Computer voice ability to vocalize when a new event occurs. Extends the "Play Sound" action.
- "Instant Output". It is now possible to connect output actions to instant events (i.e. motion start).
- **Mapping System**. An ability to position cameras on a schematic layout (i.e. building plan/facility map) and save/lock layout.
- **History of events and actions**. All events and actions are now displayed for easy data sorting and filtering. Additionally, "Check Server Issues" and "Check Camera Issues" have been added to Media Servers and Cameras Context Menu.
- **Cameras List** is introduced displaying all existing cameras allowing users to sort and filter data.
- **Video color/gamma correction**. ("Video Enhancer") This feature can be activated by pressing the contrast icon located on the actual item. Darker scenes are best to use for showcasing the full capacity of this feature. Use Context Menu to adjust feature settings. It is also possible to export video while retaining the feature.

- **Ability to adjust the quality of the second stream in camera settings**. This may be useful in particular scenarios but is only recommended for advanced users of the system.
- **Visual Motion Indication**. Motion is visually indicated.
- **Motion email notifications now include a video link**. Opens stream in the web client.
- **Locked Layouts** are introduced disallowing any changes to layouts.
- Compatibility with **Windows Server 2012 Family.**
- Compatibility with **Ubuntu 13.**
- **Translatable Tray Tool**. Language settings are applied to both Client and Tray Tool.
- **Fish-eye cameras** are supported (enabling "fish-eye" in camera settings is required). A **De-Warping** filter can now be applied to fisheye streams along with PTZ navigation, zoom windows and other functionalities including 90°, 180° and 360° mini panoramic views
- **Offline cameras diagnostics** is implemented. By clicking on Diagnose, the software will report the most probable reason(s) for a particular camera to appear offline and will generate all the necessary data required for support. This new capability will ease self-diagnostic efforts and assist support in resolving the issue.
- **Client Only Installer** is now available on Windows.
- Software is now available in **French** and **Simplified Chinese** Language options.
- **Screen capture icon** allows for a screen shot with time stamp to be taken of a camera still.
- **IMPROVEMENTS**:
- **Multi-core Processing**
    - Major enhancements to Media Server's multicore processing architecture allowing greater processing efficiency on all single and multicore processors
- **Client Launch**:
    - Auto-connection can now be activated on the login page. It will use pre-established user name and password to connect to server automatically.
    - Ability to run Client when computer boots up.

- When client connects to a system with different versions of server components (i.e EC 1.5.1, MS1 1.5.0 and MS2 1.5.1), a warning message will appear.
- The "About" section now displays versions in use by all connected media servers
- **Client UI Main Controls**:
- **Scene**:

  - The algorithm applied to arrow key item navigation (UP, LEFT, RIGHT, DOWN) has been improved.
  - The current local time appears under playback control buttons.
  - The UI tab settings (pinned or hidden tabs) are automatically saved in between client launches.
  - When resizing video on scene, text (i.e. Unauthorized, NO SIGNAL etc.) did not scale properly. Fixed.
  - A screenshot camera icon button has been added to on stream controls for **one click capture**.
  - Improved behavior for zoom windows on rotated items.

- **Tree:**

  - If a camera is experiencing technical difficulties (at least three network issues over the last minute), the camera will be marked with an exclamation mark.
  - New Context Menu items: Backup/Restore and Alarm/Event Rules ("System").
  - Thumbnails will appear in Resource Tree when hovering over a camera with a mouse cursor.
  - Thumbnails will appear in the "Select Cameras" dialog when hovering over a camera with a mouse cursor while configuring Event Rules or copying Recording Schedule to cameras.
  - A ping button has been added to the Media Server Settings dialog. If the computer is pinging, but Media Server appears to be offline, then it is most likely a software related problem. Otherwise, it is likely to be a hardware problem and a hard reset may be required.
- **Screen Recording**:

- Recorded files are now displayed properly in Windows Media Player even if the initial recording was performed in high quality.
- Recorded files are displayed much better when recording in "Application Window" vs. fullscreen.
- **Camera Settings**:
  - Previously, the application forced cameras to change their primary stream settings to max resolution and fps/quality from Recording Schedule settings. Secondary stream settings were set automatically. It is now possible to leave settings pre-configured (i.e. set up specific resolution, FPS and quality for the 1st and 2nd streams on a camera's web page and retain for use in the software. Warning: this is an Expert Mode feature and may cause for the system to work unexpectedly if used incorrectly.
  - The default motion sensitivity level in motion dialog has been changed to 5 (used to be 8).
  - The "Open Item" button has been added to the "Camera Settings" form opening the current camera in a new tab.
  - A Ping button was added to General tab of Camera Settings next to camera IP address for simple response test
  - A user can now add RTSP streams. It was not possible in earlier versions to view streams that were generated by specific Media Servers (camera streams worked well).
- **Health monitoring**:
  - Added an ability to enable/disable graphs
  - Added an ability to outline a specific graph by hovering over the description with a mouse (while all other graphs appear decolorized).
  - Added Network Usage to Health Monitoring.
  - Added new buttons to show log and server check issues.
- **Layout/Multi Videos**:
  - Improved behavior for all local files that are saved on a layout.
  - Local files are not allowed in multi-videos.
- **Web Client**:
  - Web Client can be opened directly from the Tree Context menu (System) and Main Menu.

- Panoramic cameras are now supported (1st sensor is displayed).
- **PTZ**:
  - When opening a PTZ camera in fullscreen and using a mouse wheel to zoom in, it was not possible to zoom out if PTZ controls were active. It can now be done by double-clicking.
- **Events and Actions**:
  - Notification settings are stored in the database. The login credentials remain the same regardless of the computer in use.
  - An aggregation column has been added to Event and Action (was previously located in advanced E&A settings).
  - E-Mail templates are improved with direct contact links to respective support systems.
  - A new filter has been added to "Event/Actions" dialog.
- **Manual Camera Addition**:
  - When a user tried to add an existing camera manually, the application displayed "No Cameras Found" for the existing cameras. The application now instructs the user that the camera is already registered and cannot be added again.
- **Time Line**:
  - A time selector has been added to Calendar.
  - A localized date/time format is now used in Time Line (based on regional settings).
- **Export**:
  - When exporting a single camera, the default filename is "Camera name+start day+start time" (previously a MAC address).
  - Added a screenshot timestamp option.
  - The "Open New Window" button along with a progress bar has been added to the export dialog. It is now possible to open a new Client instance and continue working during export.
  - All current video streams are purposely paused during export to save bandwidth.
- **Installer**:
  - The previous database version can now be backed up during upgrades. In case of failure, the database can be restored to the previous version.

- **NEW CAMERAS AND RECORDERS SUPPORTED**:
  - Please see the DW Spectrum v2.0 Camera & Encoder compatibility list for detailed model and feature information.
- **iOS CLIENT**:

  - iOS client now works on iOS 5
  - A sorted list of cameras is now displayed
  - A camera name appears in the top left corner
  - Panoramic cameras are now supported (1st sensor is displayed)
  - The server status was not displayed properly. Fixed.

- **ANDROID CLIENT**:

  - If a camera archive contained too many recorded fragments, live video would occasionally freeze. Fixed.
  - When logging in using a combination of caps and lowercase characters (Admin – admin), camera list did not appear. Fixed.
  - Panoramic cameras are now supported (1st sensor is displayed).
  - Added an ability to save and restore connection details.