MMP Update Instructions

This MMP software package will update a CRS unit equipped with MMP fax capabilities to the latest version of software.

The following new features have been added to this release (MMP App v02Y):

1. **Addition of Error Correction Mode (ECM) –** This feature adds the ability to send and receive faxes using error correction mode transmission. Selection of the transfer mode is done at the call program level on the originate side of the call through the selection of the ecm_mode parameter (ecm_mode = 0 disables ECM, ecm_mode = 1 turns on ECM). Originate scripts are defaulted to have ECM disabled. The terminate side of the call will always send a DIS message indicating it can support ECM mode.

2. **Image Repeat –** This feature executes the repeat transmission of a fax image during a single call. The num_pages parameter is used on the originate side of the call to indicate how many times to retransmit the selected image. An image can be repeated up to 200 times to simulate a 200 page fax transmission. After each image transfer, the number of fax pages (attempted/completed) will be updated to show a count of image transfers. If any page transfer fails, the page number will be reported via a real-time error. In addition, the capture image function on the terminate side of the call will now allow for the capturing of any of the transmitted pages (1-200) during the triggered call.

3. **File Compression Support –** This feature allows for the download of image files compressed with Modified Huffman (MH), Modified Read (MR), or Modified Modified Read (MMR) formats. The fax receiver will accept any of the three compressions at all times. The selection of the transmitted format will be selected when the .tif image is created and loaded via the MMP GUI. To send multiple formats of the same image, three different images would be created and loaded to the MMP card. At run time, the fax_image parameter is used to select the compression format desired. An image library is provided to select between different images, compression formats, and resolutions.

4. **Vertical Resolution Support –** This feature allows for the download of image files with vertical resolutions of "Fine" and "Standard". The fax receiver will accept either or the two resolutions at all times. The selection of the transmitted format will be selected when the .tif image is created and loaded via the MMP GUI. To send multiple formats of the same image, two different images would be created and loaded to the MMP card. At run time, the fax_image parameter is used to select the resolution desired. An image library is provided to select between different images, compression formats, and resolutions.

5. **Path Verification –** This feature adds the ability to perform circuit path verification through the selection of a unique ID number (1 - 65535) that is verified on the terminate side of the fax call. The fax_path_ID parameter selects the ID number to be sent on the originate side or verified on the terminate side of the call. The ID value can be viewed in the Phase B DIS message (terminates) or DCS message (originates) call trace data. A selection of fax_path_ID = 0 disables the verification (for use when terminating on a non-CRS device). If the path verification fails, the terminate side will report a code 84 and the call will end.

The following software should be installed in the order listed. See detailed instructions below:
1. MMP GUI (v1.12)
2. MMP Application code (v02Y)
3. MMP LDSP code (v4.10)
4. DCC code (for PRI or SS7 units only)
5. Scripts and Protocols
6. New image files (optional)

Extract the files from the .zip update package into a directory on your PC.

Install MMP GUI:

1. Verify the current version of the MMP GUI. Select Tools\Multimedia from FeatureCall and then select Help\About MultiMedia. If the version does not appear as Multimedia v1.12 you must install the new version of the MMP GUI.
2. Execute the SETUP.EXE file from the MMP GUI Install 1.12 directory extracted from the update archive.
3. If you have a previous version of the MMP GUI installed on your PC, you will be prompted to remove the selected application from your system. Select OK to remove the previous version. Follow the prompts for removal and after completed select FINISH. Execute the SETUP.EXE file again to install the new version.
4. Follow the prompts and select FINISH when completed.
5. From FeatureCall select Tools\Multimedia. If prompted for the location of the file, hit BROWSE to select C:\Program Files\Ameritec\FeatureCall\MultiMedia.exe. You will not be prompted again for the file location once selected.
6. Verify the version is correct by selecting Help\About MultiMedia. The version should now appear as Multimedia v1.12.

Install MMP Application Code:

1. Connect to the MMP unit you wish to update using FeatureCall.
2. Verify the current version of MMP application code in your CRS unit by selecting Report\Capture\Version Numbers in FeatureCall. Under the Line Group Software Revision heading look for the version listed under the Multimedia column. If the version is not A.02Y (for analog and E1 units) or U.02Y (for T1 units) you must load the new version of MMP application code. If the version is listed as 0.00, you may not have MMP fax capabilities on that span\line group. If you are already at the current revision, you may skip this portion of the update.
3. Select Tools\Multimedia to open the MMP GUI.
4. Select File\Load\Application from the MMP GUI.
5. Select the tab for All Spans\All Lines. Make sure the type drop-down box has application selected. Select BROWSE. Locate the file A_02Y.mmp (for analog or E1 units) or U_02Y.mpp (for T1 units) in the Application directory extracted from the update archive. Select Open to choose the file.
6. Press Load to start the loading process. The MMP application load will take some time (about 8 minutes per span/line group).
7. When completed, you will need to cycle power on your CRS unit.

Install MMP LDSP Code:

1. Connect to the MMP unit you wish to update using FeatureCall.
2. Verify the current version of MMP LDSP code in your CRS unit by selecting Report\Capture\Version Numbers in FeatureCall. Under the Line Group Software Revision heading look for the version listed under the DSPA, DSPB, DSPC, DSPD columns. If the version is not 4.10A (for analog and E1 units) or 4.10U (for T1 units) you must load the new version of MMP LDSP code. If you are already at the current revision, you may skip this portion of the update.
3. Select Tools\Multimedia to open the MMP GUI.
4. Select File\Load\Application from the MMP GUI.
5. Select the tab for All Spans\All Lines. Select the type drop-down box and select Local DSP. Select BROWSE. Locate the file LDSP410A.lds (for analog or E1 units) or LDSP410U.lds (for T1 units) in the Application directory extracted from the update archive. Select Open to choose the file.
6. Press Load to start the loading process. The MMP application load will take about 1 minute per span/line group.
7. When completed, you will need to cycle power on your CRS unit.

Install DCC Code (PRI and SS7 units only):

1. Connect to the MMP unit you wish to update using FeatureCall.
2. Verify the current version of DCC code in your CRS unit by selecting Report\Capture\Version Numbers in FeatureCall. Under the Global DSPs heading look for the version listed under the Software Revision column. If the version is not 3131N (for PRI) or 3118G (for SS7) you must load the new version of MMP LDSP code. If you are already at the current revision, you may skip this portion of the update. If the Hardware Revision column does not indicate 298 (f), your DCC code is not downloadable and you may skip this portion of the update.
3. Select File\Download Files to Unit.
4. Locate the file DXFLASH_131N.btf (for PRI) or S7FLASH_118g.BTF (for SS7) in the DCC directory extracted from the update archive. You may need to select All Files (*.*) under the files of type selection to see the .btf filenames.
5. Select OK or Open to start loading the file. The DCC load will take about 5-10 minutes.
6. When completed, you will need to cycle power on your CRS unit.
7. If you have both PRI and SS7 licenses in your unit you should repeat steps 3-6 to load the second .btf file.

Install Scripts and Protocols:

1. The scripts in this update package must be used with new MMP Application Code. Using the old scripts with new MMP Application Code will generate "Failed to detect Modem Speed" errors on every call.
2. Connect to the MMP unit you wish to update using FeatureCall.
3. Select File\Download Files to Unit.
4. Select the script or protocol file you wish to load by selecting the .hex file under the Scripts or Protocols directory extracted from the update archive.
5. Repeat steps 3 & 4 to load each required script and protocol as needed.

Install New Image Files (optional):

1. Connect to the MMP unit you wish to update using FeatureCall.

2. Select Tools\Multimedia to open the MMP GUI.
3. Select File\Load\Test Sample.
4. Select the appropriate tab for the Span\Line Group you wish to load the new image to.
5. Select BROWSE next to the image number you wish to load.
6. Select the image from the Image Library directory extracted from the update archive.
7. Repeat step 6 for each image you wish to load for that Span\Line Group
8. Select Load to start loading the images.
9. Repeat steps 4-8 for each Span\Line Group you wish to load new images on.
10. Select CLOSE when completed.

NOTES:

1. The updated scripts must be used with new MMP Application Code. Using the old scripts with new MMP Application Code will generate "Failed to detect Modem Speed" errors on every call.
2. This software strictly enforces the software licensing. Every channel running fax must be licensed. Licensing violations will generate failed calls with error code 82.
3. Fax images are limited to a single page. There was previously a 3-page image that was used in some sites. Multiple Fax page transmissions will not work correctly with images that are longer than a single page. The num_pages parameter is to be used to send multiple images rather than a multi-page image.
4. The new MMP GUI application is required to view traces and test sample listings when using the new MMP Application Code. Once the GUI is installed, the GUI will not load applications older than this build. If another version application load is required, then the files can be conditioned at the factory to allow the new MMP GUI to load it. However, this will only be done on an as needed basis and by request.
5. Image Format MMR (Modified Modified Read) requires that call programs be set to Error Correction Mode (ECM).
6. Image Format MR (Modified Read) and some MMR (Modified Modified Read) images cannot be viewed with the Kodak viewer that comes with Windows. We recommend the VuePrint viewer, which can successfully open all MH, MR, and MMR formatted files. This viewer may be found at http://www.hamrick.com

If you have any further questions regarding this update please contact Ameritec at:

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