orm PTO-1595 (Rev. 09/04) DMB No. 0651-0027 (exp. 6/30/2005)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office
RECORDATION FORM	
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.	
1. Name of conveying party(ies)/Execution Date(s):	2. Name and address of receiving party(ies)
Corvis Corporation	Name: Broadwing Corporation
	Internal Address:
Execution Date(s) <u>October 7, 2004</u> Additional name(s) of conveying party(ies) attached? Yes 🗹 No	Street Address: 7015 Albert Einstein Drive
3. Nature of conveyance:	
Assignment Merger	City: <u>Columbia</u>
Security Agreement Change of Name	State: MD
Government Interest Assignment	Country: USAZip: 21046
Executive Order 9424, Confirmatory License	
Other	Additional name(s) & address(es) attached? 🗌 Yes 🖌 No
4. Application or patent number(s):	document is being filed together with a new application B. Patent No.(s)
Additional numbers at	tached? Yes VNo
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name:Corvis Corporation	7. Total fee (37 CFR 1.21(h) & 3.41) \$_40
Internal Address: Intellectual Property Department	Authorized to be charged by credit card
	Authorized to be charged to deposit account
Street Address: 7015 Albert Einstein Drive	Enclosed
P.O. Box 9400	None required (government interest not affecting title
City: <u>Columbia</u>	8. Payment Information
State: <u>MD</u> Zip: <u>21046-9400</u>	a. Credit Card Last 4 Numbers Expiration Date
Phone Number: 443-259-4156	b. Deposit Account Number 500477
Fax Number: <u>443-259-4278</u>	
Email Address:	Authorized User Name
9. Signature: Mull C. M. Store	January 26, 2005
Signature	Date
Michael C. Antone Name of Person Signing	Total number of pages including cover 9 sheet, attachments, and documents:
Documents to be recorded (including cover she	

Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

Delaware

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The First State

I, HARRIET EMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "CORVIS CORPORATION", FILED IN THIS OFFICE ON THE SEVENTH DAY OF OCTOBER, A.D. 2004, AT 10:24 O'CLOCK A.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE SEVENTH DAY OF OCTOBER, A.D. 2004, AT 4:30 O'CLOCK P.M.

. . .

Darriet Smith Windson Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 3398062

DATE: 10-07-04

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State of Delaware Secretary of State Division of Corporations Delivered 10:48 PM 10%07%2004 FILED 10:24 PM 10/07/2004 SRV 040725280 - 2757324 FILE

CERTIFICATE OF AMENDMENT OF CERTIFICATE OF INCORPORATION

CORVIS CORPORATION (the "<u>Composition</u>"), a corporation organized and existing under and by virtue of The General Corporation Law of the State of Delaware, as anothed (the "<u>DGCL</u>"), DOES HERBEY CERTIFY:

<u>FIRST</u>. That the Beard of Directors of the Corporation has duly adopted, and a majority of the outstanding stock antitled to vote thereon has approved resolutions proposing and declaring advisable the following amendment to the Amended and Restated Cartificate of Incorporation of the Corporation.

RESOLVED, that the Amended and Restated Certificate of Incorporation of the Corporation be amended to add the following paragraph to Article 1V of the Corporation's Amended and Restated Certificate of Incorporation:

Effective at 4:30 p.m. Eastern Standard Time on the date of filing of this Certificate of Amendment with the Dolaware Secretary of State, every twenty outstanding shares of Common Stock will be combined into and automatically become one (1) outstanding share of Common Stock. The authorized shares of Common Stock of the Corporation and the par value per share shall remain as set forth in this Certificate of Incorporation. No fractional share shall be insued in connection with the foregoing stock split; all shares of Common Stock so split that are held by a stockholder will be aggregated subsequent to the foregoing split and each fractional share resulting from such aggregation of shares of Common Stock hold by a stockholder shall be rounded down to

the nearest whole share. In lieu of any interest in a fractional share of Common Stock to which a stockholder would otherwise be entitled as a result of the foregoing split, the Corporation shall pay a cash amount to such atockholder equal to the fair value of such fractional share as of the affective data of the foregoing split.

SECOND: That the aforesaid amendment was duly adopted in accordance with the applicable provisions of Section 242(b) of the DGCL.

THIRD: That this Certificate of Amendment shall be effective at 4:30 p.m., Eastern Standard Time, on October 7, 2004.

. . .

IN WITNESS WHEREOF, its Corporation has caused this Certificate of Amendment to be executed by its duly authorized officer this 6th day of October, 2004.

CORVIS CORPORATION

Name: David Mace Roberts Title: Assistant Secretary

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Delaware

PAGE 7

The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"BROADWING MERGER SUB CORPORATION", A DELAWARE CORPORATION, WITH AND INTO "CORVIS CORPORATION" UNDER THE NAME OF "BROADWING CORPORATION", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE SEVENTH DAY OF OCTOBER, A.D. 2004, AT 10:48 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF OWNERSHIP IS THE SEVENTH DAY OF OCTOBER, A.D. 2004, AT 4:31 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.

F.S. Carrie

Darriet Smith Findson Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 3397828 DATE: 10-07-04

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State of Delaware Secretary of State Division of Corporations Delivered 10:48 AM 10407/2004 FILED 10:48 AM 10/07/2004 SRV 040725296 - 2757324 FILE

CERTIFICATE OF OWNERSHIP AND MERGER

MERGING

BROADWING MERGER SUE CORPORATION

WITH AND INTO

CORVES CORPORATION

Pursuant to Section 253 of the Delaware Ganeral Corporation Law, as amonded

Corvis Corporation, a Delaware corporation (the "<u>Corporation</u>"), which desires to merge (the "<u>Margar</u>") Broadwing Merger Sub Corporation, a Delaware corporation and a wholly owned subsidiary of the Corporation ("<u>Merger Sub</u>"), with and into the Corporation on the terms set forth below and in the Plan of Merger (as defined below), parsuant to the provisions of Section 253 of the Delaware Concernal Corporation Law, as ananded (the "<u>DOCL</u>"), DOES HEREBY CHRTIFY AS POLLOWS:

FIRST: That the Corporation owns 100% of the outstanding shares of each close of outstanding capital stock of Merger Sub.

SECOND: That the Corporation's heard of directors, by the resolutions attached as Annex 1, which were adopted on July 28, 2004 at a duly convened meeting of the Corporation's based of directors, determined to effect the plan of merger attached to such resolutions as <u>Annex</u>. A (the "Plan of Merger").

THIRD: That the Corporation does hereby merge Merger Sub with and into the Corporation on the terms ast forth in the Plan of Merger, with the Corporation being the surviving corporation of the Marger.

FOURTH: That the name of the surviving corporation in the Merger is Corvis Corporation which, upon the affectiveness of the Merger, will change its name to Broadwing. Corporation.

FIFTH: That the Marger shall become effective at 4:31 p.m., Eastern Standard Time, on October 7, 2004.

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 IN WITNESS WHERBOF, the Corporation has caused this Certificate of Ownership and Morger to be executed its duly authorized officer as of this fits day of October, 2004.

CORVIS CORPORATION

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Name: David Made Roberts Tille: Assistant Scoretary

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ANNEXI

WHEREAS, the Corporation name beneficially and alrecord 100% of the issued and outstanding capital stock of Broadwing Merger Sub Corporation, a Delaware corporation ("Margar Sub"): and

WHIREAS, the Board deems it desirable and in the best interests of the Corporation to merge (the "Margar") Merger Sub with and into the Corporation, which shall be the surviving corporation of the Marger and which, pursuant to terms of the Marger, will change its name to Breadwing Corporation;

NOW THEREPORE, BE IT RESOLVED, that, in accordance with the DGCL (including, without Hustation, Section 253 of the DGCL), the Board hereby authorizes, adopts and approves in all respects the Plan of Merger anached hereto is <u>Amera A</u>, which provides for the merger of Merger Sub with and into the Corporation, which shall be as the sorviving corporation of the Merger and which, pursuant to the terms of the Merger, will change its name to Broadwing Corporation;

BE IT FORTHER RESOLVED, that the President, any Vice President, the Secretary and the Treasurer of the Corporation (each, an "Authorized Officer") are each baraby authorized, in the name and on behalf of the Corporation, to execute any Cortificate of Merger to be filed with the Office of the Delaware Secretary of State and to execute and deliver any such other certificates, instruments or documents, if any, as any of such Authorized Officers may deem necessary or appropriates to consummate the Merger;

FURTHER RESOLVED, that the Anthorized Officers of the Corporation are each hereby authorized to take from time to time, in the name and on behalf of the Corporation, such actions and to execute and deliver from time to time, in the name and on behalf of the Corporation, such cartificence, instruments, notices and documents as may be required of as such officer may deem necessary, advisable or proper in order to carry out the purposes and intern of the foregoing mealulons; all such acts and things done or caused to be done, and all such certificates, instruments, notices and documents, to be performed, executed and delivered in such form as the Authorized Officer performing or executing the same may approve, the performance or execution thereof by such Authorized Officer and by this Board; and

FUR THER RESOLVED, that any and all action homotoror or hereafter taken by each Authorized Officer of the Corporation in accordince with the foregoing resolutions is hereby approved, ratified and confirmed as the act and deed of the Corporation.

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PLAN OF MERGER

ANNEX A

OF

BROADWING MERGER SUB CORPORATION

WITH AND INTO

CORVIS CORPORATION

This Plan'of Marger (this "Plan") sets forth the terms of the marger (the "Marger") of Broadwing Marger Sub Corporation, a Delaware corporation ("Marger Sup"), with and into Cervis Corporation, a Delaware corporation ("Marger Sup"), with and into Cervis Corporation, a Delaware corporation ("Marger including, without limitation, Section 253 of the DGCL. Immediately prior to the adoption of this Plan and at all limits thereafter until the Effective Time (as defined below), Parent owned and will continue to own 100% of the issued and ourstanding shares of the capital stock of Marger Sup.

1. Effective Time. As used in this Plan, the term "Effective Time" shall mean 4:31 p.m., Eastern Standard Time, on October 7, 2004.

2. The Morper. At the Effective Time, Marger Sub shall merge with and into Parent and the separate corporate existence of Merger Sub shall thereupon cease. Parent shall be the surviving corporation in the Marger (sometimes referred to us the "<u>Surviving</u> <u>Corporation</u>") and shall continue to be governed by the laws of the State of Delawars, and the separate corporate existence of Parent with all its rights, privileges, immunities, powers and franchises shall continue unaffected by the Marger. The Morger shall have the affects specified in Section 259 of the DGCL.

3. Terms of the Merger. At the Effective Thus, anomatically by virtue of the Merger and without any action on the part of any party or other person, each share of capital stock of Merger Sub issued and outstanding immediately prior to the Effective Time shall no longer be outstanding, shall be canceled and retired without payment of any consideration therefor, and shall cease to exist.

4. <u>Contificate of Incorporation: By-laws</u>. The contificate of incorporation and by-laws of Parent immediately prior in the Effective Time shall be the certificate of incorporation and by-laws of the Serviving Corporation except that, as provided by the terms of the Merger, the name of the Parent shall be changed to Broadwing Corporation.

5. Board of Directors and Officers. The initial directors and officers of the Surviving Corporation shall consist of the directors and officers of Parent immediately prior to the Effective Time.

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