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# Microsoft Dynamics AX 2012 R3 Security

A quick guide to planning, designing, and debugging  
operational-level security for Microsoft Dynamics AX 2012 R3  
implementations

Ahmed Mohamed Rafik Moustafa

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**Ahmed Mohamed Rafik Moustafa**



BIRMINGHAM - MUMBAI

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# About the Author

**Ahmed Mohamed Rafik Moustafa** is a Dynamics AX solution architect and a Dynamics AX evangelist. In November 2012, he published his first book, *Microsoft Dynamics AX 2012 Security How-To*, Packt Publishing, and he was the first Egyptian and Arabian person to have authored a book on Microsoft Dynamics ERP products. He has been ranked and listed as one of the Top 100 Most Influential People by *DynamicsWorld*, United Kingdom. He is also a columnist at MSDynamicsWorld, a media publishing corporate in the UK, and has been recognized as an official blogger by the Microsoft Dynamics Community.

Ahmed's professional career, spanning more than 10 years, has combined his expertise in business management and information technology in different industries, such as the retail, manufacturing, medical, and trading industries. He has led various implementations in diverse ERP modules over the Middle East in different countries to meet and exceed challenging business needs. He has carried out multiple project implementations of Microsoft Dynamics GP, Microsoft Dynamics AX, and Microsoft Dynamics Retail Management System (RMS) in diverse positions, such as project manager, team leader, and senior consultant.

In addition to his knowledge and experience of Enterprise Resource planning (ERP) systems, he is always keen to raise awareness about information system security. He has been recognized as an Information Security Awareness Expert by ASK PC, the largest Arabic IT community, in association with Information System Security Association (ISSA's Egypt chapter). Also, he is listed on ASK PC's Wall of Honor, as he published his first paper on accounting information system fraud and computer crimes on Culminis/GITCA, sponsored by Microsoft. Furthermore, he has so far published two paper books on Microsoft Dynamics AX security and plans to publish more books and articles.

In addition to these achievements, Ahmed holds these certifications: Microsoft Certified Master Great Plains (GP), Microsoft Certified Business Management Solutions Professional (GP), and Microsoft Certified Information Technology Specialist (MCITP) on Microsoft Dynamics AX products. He has also been a Microsoft Certified Trainer (MCT) for 7 years.

He is the founder of the Dynamics AX camp user group, sponsored by Microsoft Technical Communities, O'Reilly Media Corporate, Pluralsight Developer Training, and EMC Community Network. The Dynamics AX camp user group aims to share knowledge, experience, news, articles, and books in the ERP field, specifically in relation to Microsoft Dynamics AX products.

In 2013, Ahmed committed himself to helping students and graduates by providing free training seminars introducing Microsoft Dynamics ERP solutions and teaching them how to build a career in Microsoft Dynamics AX ERP products. He is considered a career coach expert and is also a keynote/guest speaker at different universities in Egypt, such as the American University in Cairo (AUC), the German University in Cairo (GUC), and the British University in Egypt (BUE).

Furthermore, he is using the science of coaching to leverage the success rate of ERP project implementations to lead the change that happens when organizations adopt the ERP solution, because he believes that success in ERP projects first depends on the people who use the ERP system first and then on everyone involved with implementing the enterprise system.

In addition to his exceptional communication skills, Ahmed has a special talent for bringing out the best in others, especially his team members, by instilling a high level of motivation in them. When he isn't focusing on his career, he enjoys playing his favorite sports, such as football, swimming, and squash. He is also a good piano player, and, as you can see, he tries to maintain a balance in his life through his diverse interests and passions because he enjoys living life with joy and passion.

# About the Reviewers

**Abd El-Rahman Magdy Ahmed** is working as a senior ERP functional consultant at Dynamics AX at Columbus Global.

He is a Microsoft Certified Axapta Functional Consultant with more than 5 years of IT experience and expertise in MBS-Axapta implementations, functional analysis, Fit and Gap Analysis, Functional Design Document (FDD), customization with regards to designing and development, testing, and debugging. He has experience of the following:

- Supply chain functional implementation on Axapta 2009 and 2012
- Business Process Reengineering (BPR)
- Business consulting, implementations, and customer support
- ERP implementation skills (Dynamics AX) supply chain cycles: inventory, sales operations, procurement, accounts receivable, accounts payable, logistics, quality systems, shipping systems, and quarantine systems

His specialties are Microsoft Dynamics AX 2009 and 2012 (financial – trade and logistics, master planning, budgeting, and fixed assets), preparing solution designs on AX, supply chain management, system analysis, and design, Fit and Gap Analysis, data templates preparation, migration to AX, key, and end user training of trade and logistic modules on AX.

He has also worked on *Microsoft Dynamics AX 2012 Security How-To*, Packt Publishing.

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I thank the author of this book, Ahmed Rafik, for writing this book.

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**Parag Gunwant Chapre** is currently working with Tieto Software Technologies Limited as a senior technical consultant. He completed his BE in CSE at Nagpur University in 2008 with a first division. He has over 6 years of experience in MS Dynamics AX 2009/2012 and ASP.NET/C#.NET, MS CRM 2011, SSRS, Dynamics Connector, and AIF.

He has worked with top MS Dynamics AX companies, such as Systems Advisers Group (SAGlobal); Tectura Corporation, Noida; and Tata Consultancy Services, Pune. He has worked on different versions of Axapta such as AX 2009, AX 2012 R2, and R3.

His work experience includes Windows and web applications, SSRS development, Microsoft Dynamics AX 2009/2012, Application Integration Framework (AIF), Microsoft Dynamics Connector, and MS Dynamics CRM.

He has certifications in Windows and web applications (.NET), installation and configuration, introduction development, and MorphX solution development in MS Dynamics AX 2009/2012.

He has received appreciation from various clients for developing the SSRS report and for MS dynamics AX's integration with MS Dynamics CRM. He has worked as a technical reviewer on *Microsoft Dynamics AX 2012 R3 Cookbook*, Packt Publishing.

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**Muhammad Anas Khan** is a Microsoft Certified Professional, working as a technical consultant for Microsoft Dynamics AX at Mazik Global, where he is responsible for delivering consultancy on Dynamics AX implementation projects. His technical expertise includes Application Integration Framework (AIF), forms, SSRS and SSAS reporting, the Batch framework, role-based security, workflow development, and Enterprise Portal development.

He has more than 6 years of experience in the software industry, where he held various engineering positions in developing global enterprise systems. His career vision is to frame the right problems and find efficient solutions that deliver value to customers, partners, and shareholders. He has a master's degree in computer science from IBA University and lives with his family in Karachi.

He has also contributed to *Microsoft Dynamics AX 2012 R3 Reporting Cookbook*, Packt Publishing, as a technical reviewer.

You can find him on LinkedIn at <https://www.linkedin.com/in/muhammadanaskhan> and read his Dynamics AX blog at <https://dynamicsaxinsight.wordpress.com/>.

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I would like to thank my family for their continuous support, especially my mentors for guiding me well throughout my career.

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I would like to thank my family and friends, who have always been supportive and have shown true unconditional love and patience through my entire career. I would also like to give a shout-out to my fiancée, Joyce, for the overwhelming support she accorded me through the review.

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**Amy Walsh** is a principal consultant at I.B.I.S., Inc., located in Atlanta, GA, and is a Microsoft Certified Business Management Solutions Professional. She is a graduate of Georgia Military College and Mercer University with dual majors in accounting and finance. Prior to joining I.B.I.S., Inc., she worked in both the public and private accounting industry. This experience includes over 15 years of working in management, financial accounting, audit, and tax with both domestic and international companies that range from start-ups to established global B2B and B2C companies.

Over the last 9 years, Amy has been focusing on Microsoft business solutions, ERP implementations, SaaS, business intelligence, reporting, business process improvement, and accounting. Her experience in these various industries has been a cornerstone in helping decision makers understand and transition into new technology that keeps businesses ahead of the competition. Her goal is to continue helping businesses succeed in their endeavors, which can be accomplished by finding the right ERP system and reporting tools.

She has worked on *Microsoft Dynamics GP 2013 Reporting - Second Edition*, Packt Publishing.

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