Overview



April 2016

EXECUTIVE SUMMARY

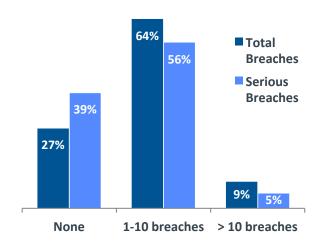
The importance of information technology (IT) security continues to grow. About 8 in 10 managers responsible for security at their firms across the 12 countries covered in CompTIA's International Trends in Cybersecurity expect security to become an even higher priority over the next two years (79% net of moderately higher + significantly higher). Anticipated priority two years from now is significantly higher among firms in Maturing Economies (86% net higher) vs. those in Mature Economies (68% net higher).

Due to the evolving nature of IT, the great majority of organizations have had to respond by changing the way their company approaches security. In most of the countries surveyed, one of the greatest factors has been the change in IT operations, especially as firms move to the cloud or implement new mobility strategies.

Another significant driver of change in security approach is reports of security breaches at other firms, as well as internal security breaches. Furthermore, across all the companies surveyed, nearly three-quarters report having at least one security breach/incident* in the past 12 months (73%).

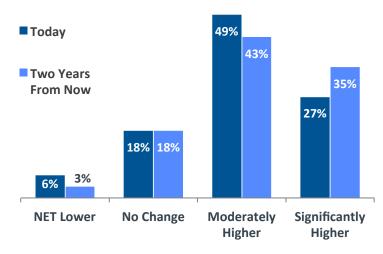
OCCURRENCE OF SECURITY BREACHES

Over the past 12 months



^{*}Stemming from internal or external causes.

IMPORTANCE OF CYBERSECURITY





TOP DRIVERS FOR CHANGING APPROACHES TO CYBERSECURITY

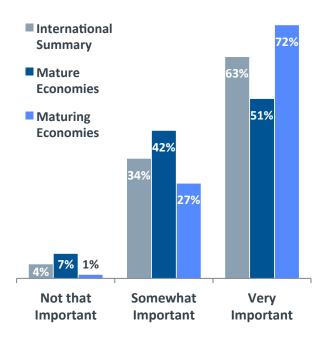
- 1. Change in IT operations (e.g. cloud, mobility)
- 2. Reports of security breaches at other firms
- 3. Internal security breach or incident
- 4. Change in business operations or client base
- 5. Knowledge gained from training/certification



While nearly three-quarters of organizations report experiencing at least one security incident, about 6 in 10 had one or more serious breaches. Human error is becoming more of a factor in security breaches for most companies now vs. two years ago, especially for those in Maturing Economies (64% net overall significantly more + moderately more).

On the brighter side, roughly 9 in 10 firms use some type of security training to assess or improve security knowledge among employees such as new employee orientation, ongoing security training programs, random security audits, online courses, etc. (92% overall). And nearly all managers believe it is important to test after IT security training to confirm knowledge gains (96% net very important + somewhat important). Moreover, employers in Maturing Economies especially find IT security certifications to be very valuable (49%) compared to those in Mature Economies (25%). Overall, 8 in 10 managers indicate that IT security certifications are very valuable (38%) or valuable (42%) in terms of validating security-related knowledge/skills or evaluating job candidates.

IMPORTANCE OF TESTING AFTER CYBERSECURITY TRAINING



HUMAN ERROR A MAJOR CONTRIBUTOR TO SECURITY RISK



TOP SOURCES OF HUMAN CYBERSECURITY ERROR

- General carelessness
- 2. Failure to get up to speed on new threats
- 3. Lack of expertise with websites and applications
- 4. End user failure to follow policies and procedures
- 5. Lack of expertise with networks, servers and other infrastructure
- 6. IT staff failure to follow policies and procedures



Summary for Australia



April 2016

EXECUTIVE SUMMARY

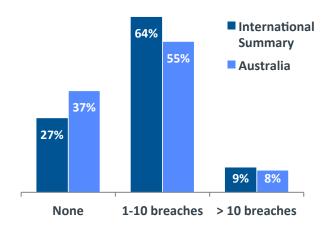
The importance of information technology (IT) security continues to grow. About 8 in 10 managers responsible for security at their firms across the 12 countries covered in CompTIA's International Trends in Cybersecurity expect security to become an even higher priority over the next two years (79% net of moderately higher + significantly higher). Anticipated priority two years from now is significantly higher among firms in Maturing Economies (86% net higher) vs. those in Mature Economies (68% net higher). Nearly three-quarters of businesses in Australia expect IT security to grow in importance (72% net higher).

Due to the evolving nature of IT, the great majority of organisations have had to respond by changing the way their company approaches security. In Australia, similar to many of the other countries, the greatest factor has been the change in IT operations, especially as firms move to the cloud or implement new mobility strategies.

Another significant driver of change in security approach is reports of security breaches at other firms as well as internal incidents. Furthermore, across all the companies surveyed, nearly three-quarters report having at least one security breach/incident* in the past 12 months (73%).

OCCURRENCE OF SECURITY BREACHES

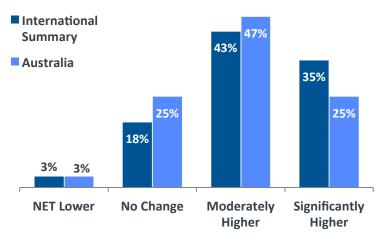
Over the past 12 months

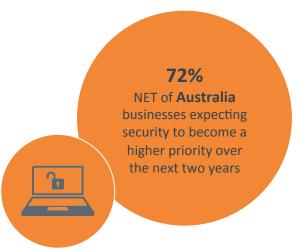


^{*}Stemming from internal or external causes.

IMPORTANCE OF CYBERSECURITY

Expected priority in 2 years from today





TOP DRIVERS FOR CHANGING APPROACHES TO CYBERSECURITY

Among Australia businesses

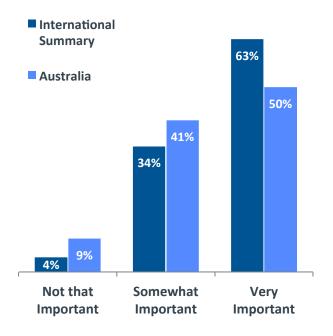
- 1. Change in IT operations (e.g. cloud, mobility)
- 2. Reports of security breaches at other firms
- 3. Internal security breach or incident
- 4. Knowledge gained from training/certification
- 5. Change in business operations or client base



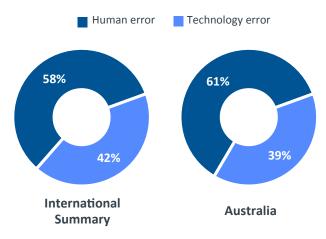
While 6 in 10 Australian organisations experienced at least one security incident, slightly more than a half had one or more serious breaches. Human error is becoming more of a factor in security breaches for most companies, especially for those in Maturing Economies (64% net overall significantly more + moderately more). In Australia, it is more of a factor now vs. two years ago for more than half (56% net human error more of a factor).

On the brighter side, roughly 9 in 10 firms use some type of security training to assess or improve security knowledge among employees such as new employee orientation, ongoing security training programs, random security audits, online courses, etc. (92% overall and 89% in Australia). And most managers believe it is important to test after IT security training to confirm knowledge gains (91% net very important + somewhat important in Australia). Moreover, employers in Maturing Economies especially find IT security certifications to be very valuable (49%) compared to those in Mature Economies (25%). Seven in ten Australian managers indicate that IT security certifications are very valuable (24%) or valuable (47%) in terms of validating security-related knowledge/skills or evaluating job candidates.

IMPORTANCE OF TESTING AFTER CYBERSECURITY TRAINING



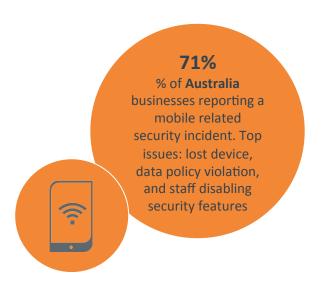
HUMAN ERROR A MAJOR CONTRIBUTOR TO SECURITY RISK



TOP SOURCES OF HUMAN CYBERSECURITY ERROR

Among Australia businesses

- 1. Failure to get up to speed on new threats
- 2. End user failure to follow policies and procedures
- 3. General carelessness
- 4. Intentional disabling of security
- 5. Lack of expertise with websites and applications
- 6. IT staff failure to follow policies and procedures



Summary for Brazil



April 2016

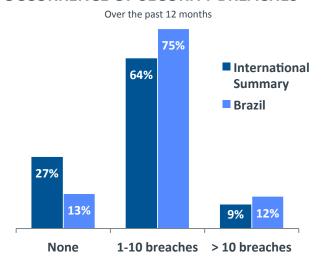
EXECUTIVE SUMMARY

The importance of information technology (IT) security continues to grow. About 8 in 10 managers responsible for security at their firms across the 12 countries covered in CompTIA's International Trends in Cybersecurity expect security to become an even higher priority over the next two years (79% net of moderately higher + significantly higher). Anticipated priority two years from now is significantly higher among firms in Maturing Economies (86% net higher) vs. those in Mature Economies (68% net higher). Nine in ten businesses in Brazil expect IT security to grow in importance (90% net higher).

Due to the evolving nature of IT, the great majority of organizations have had to respond by changing the way their company approaches security. In Brazil, similar to many of the other countries, the greatest factor has been the change in IT operations, especially as firms move to the cloud or implement new mobility strategies.

Another significant driver of change in security approach is reports of security breaches at other firms. Furthermore, across all the companies surveyed, nearly three-quarters report having at least one security breach/incident* in the past 12 months (73%).

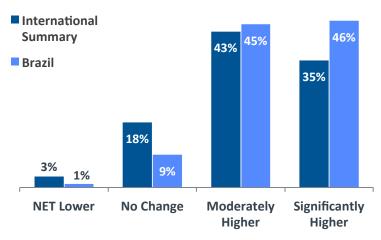
OCCURRENCE OF SECURITY BREACHES



^{*}Stemming from internal or external causes.

IMPORTANCE OF CYBERSECURITY

Expected priority in 2 years from today





TOP DRIVERS FOR CHANGING APPROACHES TO CYBERSECURITY

Among Brazil businesses

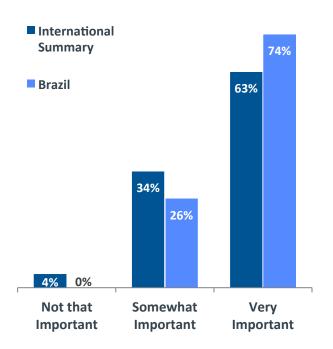
- 1. Change in IT operations (e.g. cloud, mobility)
- 2. Change in business operations or client base
- 3. Knowledge gained from training/certification
- 4. Focus on a new industry vertical
- 5. Reports of security breaches at other firms



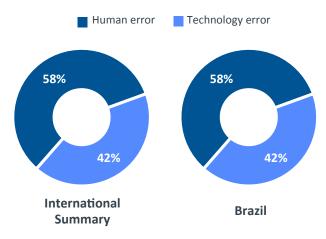
While nearly 9 in 10 Brazil organizations experienced at least one security incident, slightly over three-quarters had one or more serious breaches. Human error is becoming more of a factor in security breaches for most companies, especially for those in Maturing Economies (64% net overall significantly more + moderately more). In Brazil, it is more of a factor now vs. two years ago for nearly three-quarters of businesses (72% net human error more of a factor).

On the brighter side, roughly 9 in 10 firms use some type of security training to assess or improve security knowledge among employees such as new employee orientation, ongoing security training programs, random security audits, online courses, etc. (92% overall and 94% in Brazil). And nearly all managers believe it is important to test after IT security training to confirm knowledge gains (100% net very important + somewhat important in Brazil). Moreover, employers in Maturing Economies especially find IT security certifications to be very valuable (49%) compared to those in Mature Economies (25%). Most Brazil managers indicate that IT security certifications are very valuable (71%) or valuable (22%) in terms of validating securityrelated knowledge/skills or evaluating job candidates.

IMPORTANCE OF TESTING AFTER CYBERSECURITY TRAINING



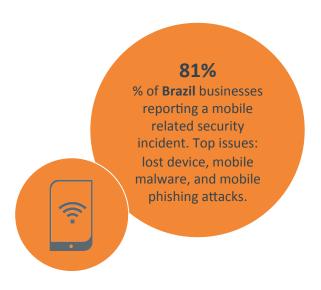
HUMAN ERROR A MAJOR CONTRIBUTOR TO SECURITY RISK



TOP SOURCES OF HUMAN CYBERSECURITY ERROR

Among Brazil businesses

- 1. General carelessness
- 2. IT staff failure to follow policies and procedures
- 3. Failure to get up to speed on new threats
- 4. End user failure to follow policies and procedures
- 5. Lack of expertise with networks, servers and other infrastructure
- 6. Lack of expertise with websites and applications



Summary for Canada



April 2016

EXECUTIVE SUMMARY

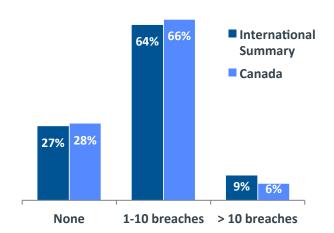
The importance of information technology (IT) security continues to grow. About 8 in 10 managers responsible for security at their firms across the 12 countries covered in CompTIA's International Trends in Cybersecurity expect security to become an even higher priority over the next two years (79% net of moderately higher + significantly higher). Anticipated priority two years from now is significantly higher among firms in Maturing Economies (86% net higher) vs. those in Mature Economies (68% net higher). Nearly two-thirds of businesses in Canada expect IT security to grow in importance (67% net higher).

Due to the evolving nature of IT, the great majority of organizations have had to respond by changing the way their company approaches security. In Canada, similar to many of the other countries, the greatest factor has been the change in IT operations, especially as firms move to the cloud or implement new mobility strategies.

Another significant driver of change in security approach is reports of security breaches at other firms as well as internal incidents. Furthermore, across all the companies surveyed, nearly three-quarters report having at least one security breach/incident* in the past 12 months (73%).

OCCURRENCE OF SECURITY BREACHES

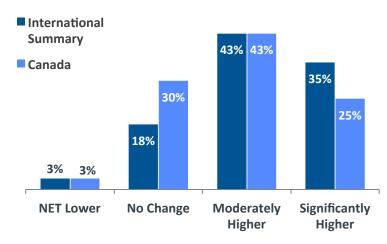
Over the past 12 months

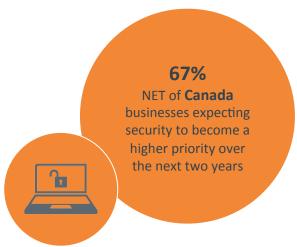


^{*}Stemming from internal or external causes.

IMPORTANCE OF CYBERSECURITY

Expected priority in 2 years from today





TOP DRIVERS FOR CHANGING APPROACHES TO CYBERSECURITY

Among Canada businesses

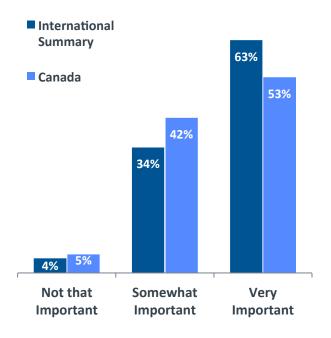
- 1. Change in IT operations (e.g. cloud, mobility)
- 2. Reports of security breaches at other firms
- 3. Change in business operations or client base
- 4. Internal security breach or incident
- 5. Knowledge gained from training/certification



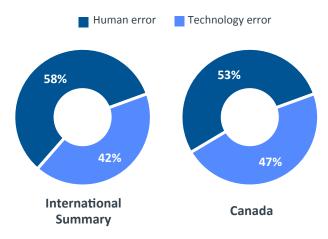
While 7 in 10 Canada organizations experienced at least one security incident, slightly over half had one or more serious breaches. Human error is becoming more of a factor in security breaches for most companies, especially for those in Maturing Economies (64% net overall significantly more + moderately more). In Canada, it is more of a factor now vs. two years ago for half (50% net human error more of a factor).

On the brighter side, roughly 9 in 10 firms use some type of security training to assess or improve security knowledge among employees such as new employee orientation, ongoing security training programs, random security audits, online courses, etc. (92% overall and 93% in Canada). And most managers believe it is important to test after IT security training to confirm knowledge gains (95% net very important + somewhat important in Canada). Moreover, employers in Maturing Economies especially find IT security certifications to be very valuable (49%) compared to those in Mature Economies (25%). More than three-quarters of Canada managers indicate that IT security certifications are very valuable (31%) or valuable (47%) in terms of validating security-related knowledge/skills or evaluating job candidates.

IMPORTANCE OF TESTING AFTER CYBERSECURITY TRAINING



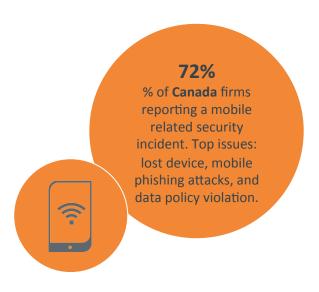
HUMAN ERROR A MAJOR CONTRIBUTOR TO SECURITY RISK



TOP SOURCES OF HUMAN CYBERSECURITY ERROR

Among Canada businesses

- 1. General carelessness
- 2. End user failure to follow policies and procedures
- 3. Lack of expertise with networks, servers and other infrastructure
- 4. Lack of expertise with websites and applications
- 5. IT staff failure to follow policies and procedures
- 6. Failure to get up to speed on new threats



Summary for Germany



April 2016

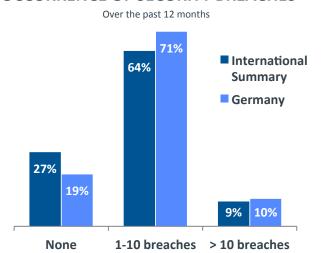
EXECUTIVE SUMMARY

The importance of information technology (IT) security continues to grow. About 8 in 10 managers responsible for security at their firms across the 12 countries covered in CompTIA's International Trends in Cybersecurity expect security to become an even higher priority over the next two years (79% net of moderately higher + significantly higher). Anticipated priority two years from now is significantly higher among firms in Maturing Economies (86% net higher) vs. those in Mature Economies (68% net higher). Nearly three-quarters of businesses in Germany expect IT security to grow in importance (73% net higher).

Due to the evolving nature of IT, the great majority of organizations have had to respond by changing the way their company approaches security. In Germany, similar to many of the other countries, the greatest factor has been the change in IT operations, especially as firms move to the cloud or implement new mobility strategies.

Another significant driver of change in security approach is reports of security breaches at other firms as well as internal incidents. Furthermore, across all the companies surveyed, nearly three-quarters report having at least one security breach/incident* in the past 12 months (73%).

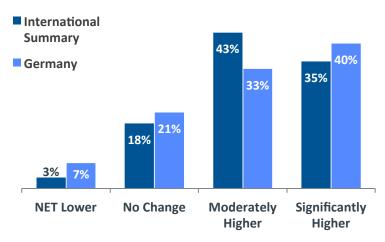
OCCURRENCE OF SECURITY BREACHES

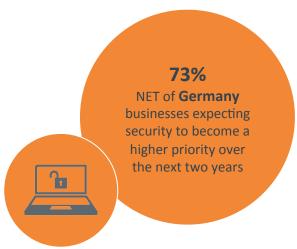


^{*}Stemming from internal or external causes.

IMPORTANCE OF CYBERSECURITY

Expected priority in 2 years from today





TOP DRIVERS FOR CHANGING APPROACHES TO CYBERSECURITY

Among Germany businesses

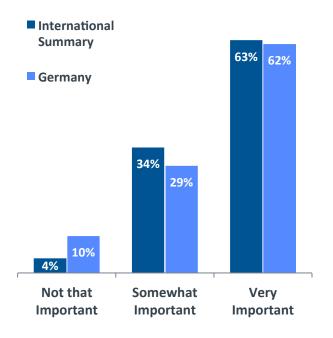
- 1. Change in IT operations (e.g. cloud, mobility)
- 2. Knowledge gained from training/certification
- 3. Reports of security breaches at other firms
- 4. Internal security breach or incident
- 5. Change in management



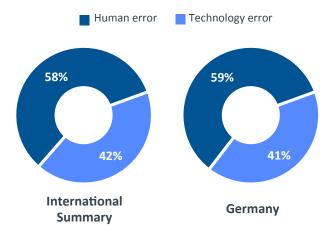
While 8 in 10 organizations in Germany experienced at least one security incident, nearly two-thirds had one or more serious breaches. Human error is becoming more of a factor in security breaches for most companies, especially for those in Maturing Economies (64% net overall significantly more + moderately more). In Germany, it is more of a factor now vs. two years ago for more than half (63% net human error more of a factor).

On the brighter side, roughly 9 in 10 firms use some type of security training to assess or improve security knowledge among employees such as new employee orientation, ongoing security training programs, random security audits, online courses, etc. (92% overall and 90% in Germany). And most managers believe it is important to test after IT security training to confirm knowledge gains (91% net very important + somewhat important in Germany). Moreover, employers in Maturing Economies especially find IT security certifications to be very valuable (49%) compared to those in Mature Economies (25%). Two-thirds of managers in Germany indicate that IT security certifications are very valuable (23%) or valuable (44%) in terms of validating security-related knowledge/skills or evaluating job candidates.

IMPORTANCE OF TESTING AFTER CYBERSECURITY TRAINING



HUMAN ERROR A MAJOR CONTRIBUTOR TO SECURITY RISK



TOP SOURCES OF HUMAN CYBERSECURITY ERROR

Among Germany businesses

- 1. General carelessness
- 2. Failure to get up to speed on new threats
- 3. IT staff failure to follow policies and procedures
- 4. End user failure to follow policies and procedures
- 5. Lack of expertise with networks, servers and other infrastructure
- 6. Inadequate resources/lack of time to manage threats



Summary for India



April 2016

EXECUTIVE SUMMARY

The importance of information technology (IT) security continues to grow. About 8 in 10 managers responsible for security at their firms across the 12 countries covered in CompTIA's International Trends in Cybersecurity expect security to become an even higher priority over the next two years (79% net of moderately higher + significantly higher). Anticipated priority two years from now is significantly higher among firms in Maturing Economies (86% net higher) vs. those in Mature Economies (68% net higher). Roughly four out of five businesses in India expect IT security to grow in importance (84% net higher).

Due to the evolving nature of IT, the great majority of organizations have had to respond by changing the way their company approaches security. In India, similar to many of the other countries, the greatest factor has been the change in IT operations, especially as firms move to the cloud or implement new mobility strategies.

Another significant driver of change in security approach is internal security breaches. Furthermore, across all the companies surveyed, nearly three-quarters report having at least one security breach/incident* in the past 12 months (73%).

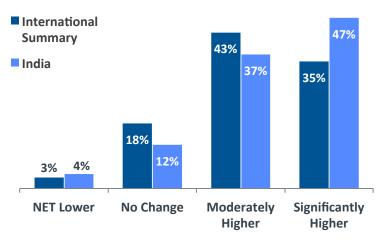
OCCURRENCE OF SECURITY BREACHES

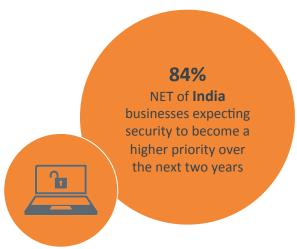


^{*}Stemming from internal or external causes.

IMPORTANCE OF CYBERSECURITY

Expected priority in 2 years from today





TOP DRIVERS FOR CHANGING APPROACHES TO CYBERSECURITY

Among India businesses

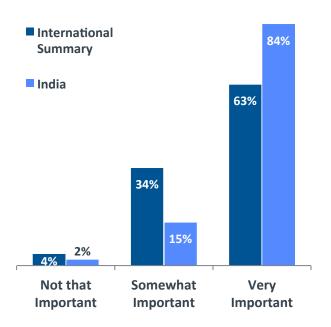
- 1. Change in IT operations (e.g. cloud, mobility)
- 2. Internal security breach or incident
- 3. Change in business operations or client base
- 4. Reports of security breaches at other firms
- 5. Knowledge gained from training/certification



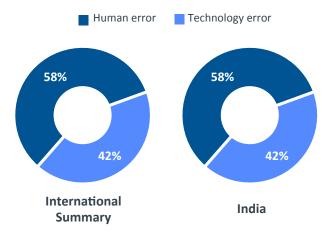
While 94% of India organizations experienced at least one security incident, 9 in 10 also reported one or more serious breaches. Human error is becoming more of a factor in security breaches for most companies, especially for those in Maturing Economies (64% net overall significantly more + moderately more). In India, it is more of a factor now vs. two years ago for nearly three-quarters (72% net human error more of a factor).

On the brighter side, roughly 9 in 10 firms use some type of security training to assess or improve security knowledge among employees such as new employee orientation, ongoing security training programs, random security audits, online courses, etc. (92% overall and 99% in India). And most managers believe it is important to test after IT security training to confirm knowledge gains (98% net very important + somewhat important in India). Moreover, employers in Maturing Economies especially find IT security certifications to be very valuable (49%) compared to those in Mature Economies (25%). Nine in ten managers in India indicate that IT security certifications are very valuable (50%) or valuable (41%) in terms of validating security-related knowledge/skills or evaluating job candidates.

IMPORTANCE OF TESTING AFTER CYBERSECURITY TRAINING



HUMAN ERROR A MAJOR CONTRIBUTOR TO SECURITY RISK



TOP SOURCES OF HUMAN CYBERSECURITY ERROR

Among India businesses

- 1. Lack of expertise with websites and applications
- 2. Lack of expertise with networks, servers and other infrastructure
- 3. Failure to get up to speed on new threats
- 4. IT staff failure to follow policies and procedures
- 5. End user failure to follow policies and procedures
- 6. General carelessness



Summary for Japan



April 2016

EXECUTIVE SUMMARY

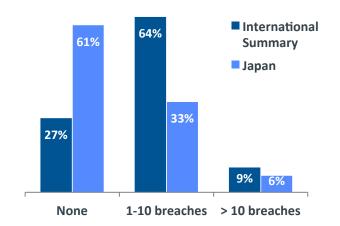
The importance of information technology (IT) security continues to grow. About 8 in 10 managers responsible for security at their firms across the 12 countries covered in CompTIA's International Trends in Cybersecurity expect security to become an even higher priority over the next two years (79% net of moderately higher + significantly higher). Anticipated priority two years from now is significantly higher among firms in Maturing Economies (86% net higher) vs. those in Mature Economies (68% net higher). Nearly two-thirds of businesses in Japan expect IT security to grow in importance (64% net higher).

Due to the evolving nature of IT, the great majority of organizations have had to respond by changing the way their company approaches security. In Japan, similar to many of the other countries, the greatest factor has been the change in IT operations, especially as firms move to the cloud or implement new mobility strategies.

Another significant driver of change in security approach is internal security breaches. Furthermore, across all the companies surveyed, nearly three-quarters report having at least one security breach/incident* in the past 12 months (73%).

OCCURRENCE OF SECURITY BREACHES

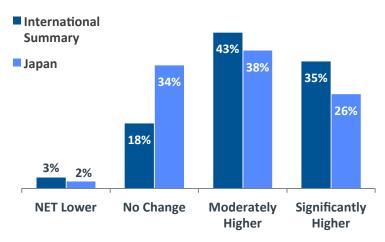
Over the past 12 months

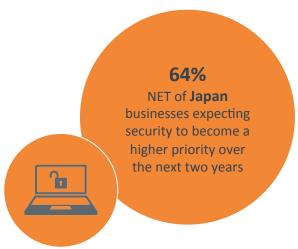


^{*}Stemming from internal or external causes.

IMPORTANCE OF CYBERSECURITY

Expected priority in 2 years from today





TOP DRIVERS FOR CHANGING APPROACHES TO CYBERSECURITY

Among Japan businesses

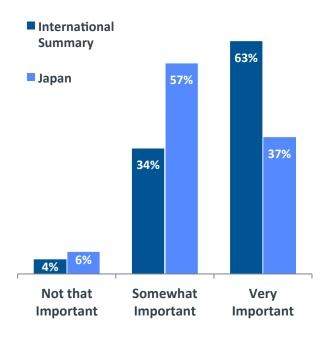
- 1. Change in IT operations (e.g. cloud, mobility)
- 2. Internal security breach or incident
- 3. Reports of security breaches at other firms
- 4. Vulnerability discovered by an outside party
- 5. Knowledge gained from training /certification



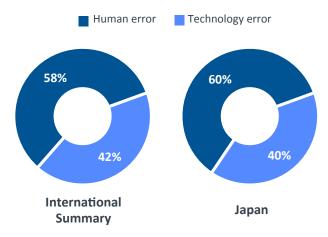
While 4 in 10 Japan organizations experienced at least one security incident, slightly over a fifth had one or more serious breaches. Human error is becoming more of a factor in security breaches for most companies, especially for those in Maturing Economies (64% net overall significantly more + moderately more). In Japan, it is more of a factor now vs. two years ago for more than half (59% net human error more of a factor).

On the brighter side, roughly 9 in 10 firms use some type of security training to assess or improve security knowledge among employees such as new employee orientation, ongoing security training programs, random security audits, online courses, etc. (92% overall and 86% in Japan). And most managers believe it is important to test after IT security training to confirm knowledge gains (94% net very important + somewhat important in Japan). Moreover, employers in Maturing Economies especially find IT security certifications to be very valuable (49%) compared to those in Mature Economies (25%). Nearly two-thirds of managers in Japan indicate that IT security certifications are very valuable (13%) or valuable (47%) in terms of validating security-related knowledge/skills or evaluating job candidates.

IMPORTANCE OF TESTING AFTER CYBERSECURITY TRAINING



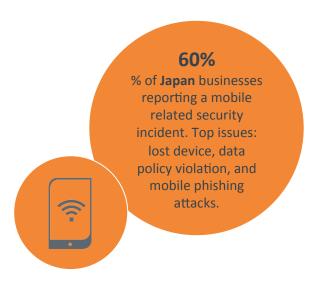
HUMAN ERROR A MAJOR CONTRIBUTOR TO SECURITY RISK



TOP SOURCES OF HUMAN CYBERSECURITY ERROR

Among Japan businesses

- 1. General carelessness
- 2. Failure to get up to speed on new threats
- 3. Intentional disabling of security features
- 4. Inadequate resources/lack of time to manage threats
- 5. Lack of expertise with networks, servers and other infrastructure
- 6. End user failure to follow policies and procedures



Summary for Malaysia



April 2016

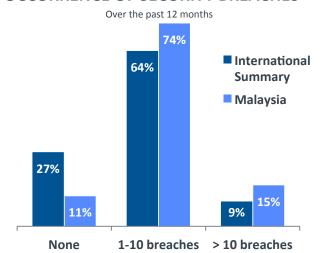
EXECUTIVE SUMMARY

The importance of information technology (IT) security continues to grow. About 8 in 10 managers responsible for security at their firms across the 12 countries covered in CompTIA's International Trends in Cybersecurity expect security to become an even higher priority over the next two years (79% net of moderately higher + significantly higher). Anticipated priority two years from now is significantly higher among firms in Maturing Economies (86% net higher) vs. those in Mature Economies (68% net higher). Slightly over 9 in 10 businesses in Malaysia expect IT security to grow in importance (92% net higher).

Due to the evolving nature of IT, the great majority of organizations have had to respond by changing the way their company approaches security. In Malaysia, similar to many of the other countries, the greatest factor has been the change in IT operations, especially as firms move to the cloud or implement new mobility strategies.

Another significant driver of change in security approach is internal security breaches. Furthermore, across all the companies surveyed, nearly three-quarters report having at least one security breach/incident* in the past 12 months (73%).

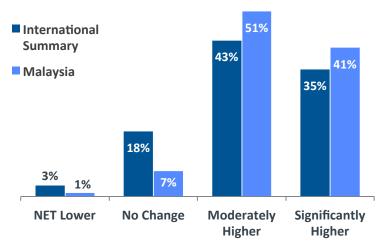
OCCURRENCE OF SECURITY BREACHES

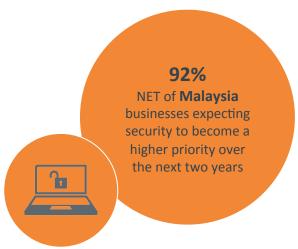


^{*}Stemming from internal or external causes.

IMPORTANCE OF CYBERSECURITY

Expected priority in 2 years from today





TOP DRIVERS FOR CHANGING APPROACHES TO CYBERSECURITY

Among Malaysia businesses

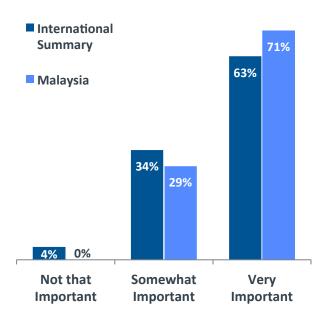
- 1. Change in IT operations (e.g. cloud, mobility)
- 2. Internal security breach or incident
- 3. Knowledge gained from training/certification
- 4. Reports of security breaches at other firms
- 5. Change in management



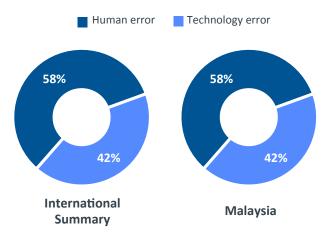
While 9 in 10 organizations in Malaysia experienced at least one security incident, 8 in 10 had one or more serious breaches. Human error is becoming more of a factor in security breaches for most companies, especially for those in Maturing Economies (64% net overall significantly more + moderately more). In Malaysia, it is more of a factor now vs. two years ago for about three-quarters (74% net human error more of a factor).

On the brighter side, roughly 9 in 10 firms use some type of security training to assess or improve security knowledge among employees such as new employee orientation, ongoing security training programs, random security audits, online courses, etc. (92% overall and 98% in Malaysia). And nearly all managers believe it is important to test after IT security training to confirm knowledge gains (100% net very important + somewhat important in Malaysia). Moreover, employers in Maturing Economies especially find IT security certifications to be very valuable (49%) compared to those in Mature Economies (25%). Most managers in Malaysia indicate that IT security certifications are very valuable (41%) or valuable (48%) in terms of validating security-related knowledge/skills or evaluating job candidates.

IMPORTANCE OF TESTING AFTER CYBERSECURITY TRAINING



HUMAN ERROR A MAJOR CONTRIBUTOR TO SECURITY RISK



TOP SOURCES OF HUMAN CYBERSECURITY ERROR

Among Malaysia businesses

- 1. General carelessness
- 2. Lack of expertise with networks, servers and other infrastructure
- 3. Lack of expertise with websites and applications
- 4. IT staff failure to follow policies and procedures
- 5. End user failure to follow policies and procedures
- 6. Inadequate resources/lack of time to manage threats



Summary for Mexico



April 2016

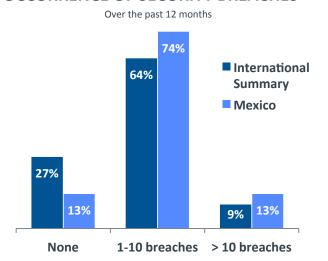
EXECUTIVE SUMMARY

The importance of information technology (IT) security continues to grow. About 8 in 10 managers responsible for security at their firms across the 12 countries covered in CompTIA's International Trends in Cybersecurity expect security to become an even higher priority over the next two years (79% net of moderately higher + significantly higher). Anticipated priority two years from now is significantly higher among firms in Maturing Economies (86% net higher) vs. those in Mature Economies (68% net higher). More than three-quarters of businesses in Mexico expect IT security to grow in importance (78% net higher).

Due to the evolving nature of IT, the great majority of organizations have had to respond by changing the way their company approaches security. In Mexico, similar to many of the other countries, one of the greatest factors has been the change in IT operations, especially as firms move to the cloud or implement new mobility strategies.

Another notable driver of change in security approach is internal security breaches. Furthermore, across all the companies surveyed, nearly three-quarters report having at least one security breach/incident* in the past 12 months (73%).

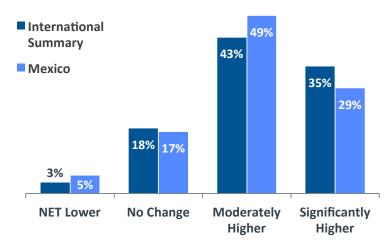
OCCURRENCE OF SECURITY BREACHES

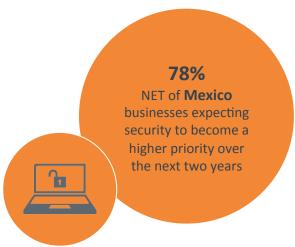


^{*}Stemming from internal or external causes.

IMPORTANCE OF CYBERSECURITY

Expected priority in 2 years from today





TOP DRIVERS FOR CHANGING APPROACHES TO CYBERSECURITY

Among Mexico businesses

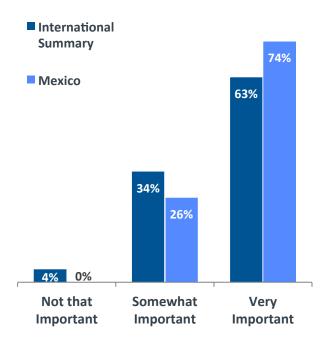
- 1. Vulnerability discovered by an outside party
- 2. Change in IT operations (e.g. cloud, mobility)
- 3. Change in management
- 4. Knowledge gained from training/certification
- 5. Focus on a new industry vertical



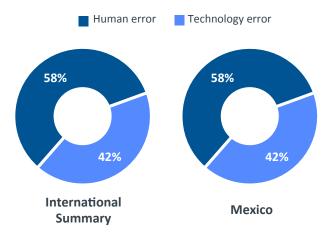
While nearly 9 in 10 Mexico organizations experienced at least one security incident, nearly three-quarters had one or more serious breaches. Human error is becoming more of a factor in security breaches for most companies, especially for those in Maturing Economies (64% net overall significantly more + moderately more). In Mexico, it is more of a factor now vs. two years ago for nearly more than two-thirds of businesses (69% net human error more of a factor).

On the brighter side, roughly 9 in 10 firms use some type of security training to assess or improve security knowledge among employees such as new employee orientation, ongoing security training programs, random security audits, online courses, etc. (92% overall and 98% in Mexico). And nearly all managers believe it is important to test after IT security training to confirm knowledge gains (100% net very important + somewhat important in Mexico). Moreover, employers in Maturing Economies especially find IT security certifications to be very valuable (49%) compared to those in Mature Economies (25%). Most managers in Mexico indicate that IT security certifications are very valuable (45%) or valuable (52%) in terms of validating security-related knowledge/skills or evaluating job candidates.

IMPORTANCE OF TESTING AFTER CYBERSECURITY TRAINING



HUMAN ERROR A MAJOR CONTRIBUTOR TO SECURITY RISK



TOP SOURCES OF HUMAN CYBERSECURITY ERROR

Among Mexico businesses

- 1. Lack of expertise with websites and applications
- 2. IT staff failure to follow policies and procedures
- 3. Failure to get up to speed on new threats
- 4. General carelessness
- 5. Lack of expertise with networks, servers and other infrastructure
- 6. End user failure to follow policies and procedures



Summary for South Africa



April 2016

EXECUTIVE SUMMARY

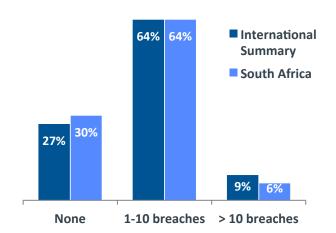
The importance of information technology (IT) security continues to grow. About 8 in 10 managers responsible for security at their firms across the 12 countries covered in CompTIA's International Trends in Cybersecurity expect security to become an even higher priority over the next two years (79% net of moderately higher + significantly higher). Anticipated priority two years from now is significantly higher among firms in Maturing Economies (86% net higher) vs. those in Mature Economies (68% net higher). Slightly over 9 in 10 businesses in South Africa expect IT security to grow in importance (93% net higher).

Due to the evolving nature of IT, the great majority of organizations have had to respond by changing the way their company approaches security. In South Africa, similar to many of the other countries, the greatest factor has been the change in IT operations, especially as firms move to the cloud or implement new mobility strategies.

Another significant driver of change in security approach is reports of security breaches at other firms. Furthermore, across all the companies surveyed, nearly three-quarters report having at least one security breach/incident* in the past 12 months (73%).

OCCURRENCE OF SECURITY BREACHES

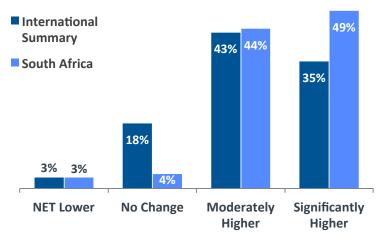
Over the past 12 months



^{*}Stemming from internal or external causes.

IMPORTANCE OF CYBERSECURITY

Expected priority in 2 years from today





TOP DRIVERS FOR CHANGING APPROACHES TO CYBERSECURITY

Among South Africa businesses

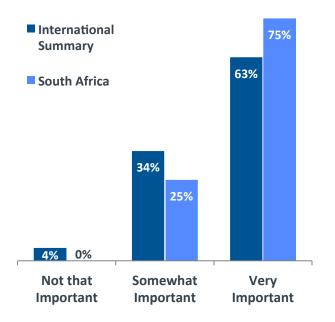
- 1. Change in IT operations (e.g. cloud, mobility)
- 2. Reports of security breaches at other firms
- 3. Knowledge gained from training/certification
- 4. Change in business operations or client base
- 5. Internal security breach or incident



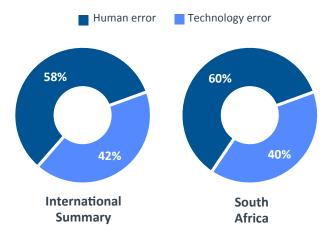
While 7 in 10 organizations in South Africa experienced at least one security incident, slightly over 6 in 10 had one or more serious breaches. Human error is becoming more of a factor in security breaches for most companies, especially for those in Maturing Economies (64% net overall significantly more + moderately more). In South Africa, it is more of a factor now vs. two years ago for more than half (58% net human error more of a factor).

On the brighter side, roughly 9 in 10 firms use some type of security training to assess or improve security knowledge among employees such as new employee orientation, ongoing security training programs, random security audits, online courses, etc. (92% overall and 93% in South Africa). And nearly all managers believe it is important to test after IT security training to confirm knowledge gains (100% net very important + somewhat important in South Africa). Moreover, employers in Maturing Economies especially find IT security certifications to be very valuable (49%) compared to those in Mature Economies (25%). Most managers in South Africa indicate that IT security certifications are very valuable (49%) or valuable (36%) in terms of validating security-related knowledge/skills or evaluating job candidates.

IMPORTANCE OF TESTING AFTER CYBERSECURITY TRAINING



HUMAN ERROR A MAJOR CONTRIBUTOR TO SECURITY RISK



TOP SOURCES OF HUMAN CYBERSECURITY ERROR

Among South Africa businesses

- 1. General carelessness
- 2. Failure to get up to speed on new threats
- 3. Lack of expertise with websites and applications
- 4. End user failure to follow policies and procedures
- 5. IT staff failure to follow policies and procedures
- 6. Lack of expertise with networks, servers and other infrastructure



Summary for Thailand



April 2016

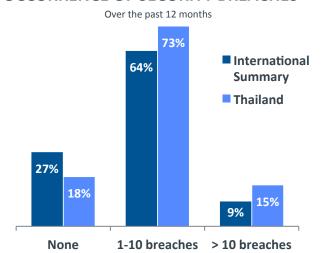
EXECUTIVE SUMMARY

The importance of information technology (IT) security continues to grow. About 8 in 10 managers responsible for security at their firms across the 12 countries covered in CompTIA's International Trends in Cybersecurity expect security to become an even higher priority over the next two years (79% net of moderately higher + significantly higher). Anticipated priority two years from now is significantly higher among firms in Maturing Economies (86% net higher) vs. those in Mature Economies (68% net higher). Nearly 9 in 10 businesses in Thailand expect IT security to grow in importance (89% net higher).

Due to the evolving nature of IT, the great majority of organizations have had to respond by changing the way their company approaches security. In Thailand, similar to many of the other countries, the greatest factor has been the change in IT operations, especially as firms move to the cloud or implement new mobility strategies.

Another significant driver of change in security approach is internal security breaches. Furthermore, across all the companies surveyed, nearly three-quarters report having at least one security breach/incident* in the past 12 months (73%).

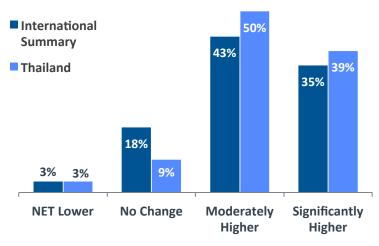
OCCURRENCE OF SECURITY BREACHES

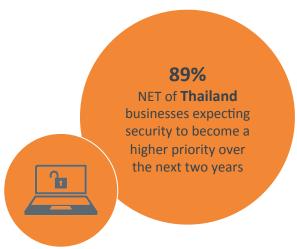


^{*}Stemming from internal or external causes.

IMPORTANCE OF CYBERSECURITY

Expected priority in 2 years from today





TOP DRIVERS FOR CHANGING APPROACHES TO CYBERSECURITY

Among Thailand businesses

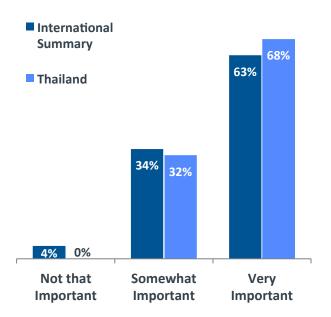
- 1. Change in IT operations (e.g. cloud, mobility)
- 2. Change in management
- 3. Change in business operations or client base
- 4. Internal security breach or incident
- 5. Vulnerability discovered by an outside party



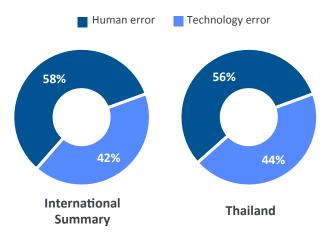
While slightly over 8 in 10 organizations in Thailand experienced at least one security incident, nearly three-quarters had one or more serious breaches. Human error is becoming more of a factor in security breaches for most companies, especially for those in Maturing Economies (64% net overall significantly more + moderately more). In Thailand, it is more of a factor now vs. two years ago for about three-quarters (77% net human error more of a factor).

On the brighter side, roughly 9 in 10 firms use some type of security training to assess or improve security knowledge among employees such as new employee orientation, ongoing security training programs, random security audits, online courses, etc. (92% overall and 97% in Thailand). And nearly all managers believe it is important to test after IT security training to confirm knowledge gains (100% net very important + somewhat important in Thailand). Moreover, employers in Maturing Economies especially find IT security certifications to be very valuable (49%) compared to those in Mature Economies (25%). More than 9 in 10 managers in Thailand indicate that IT security certifications are very valuable (42%) or valuable (51%) in terms of validating security-related knowledge/skills or evaluating job candidates.

IMPORTANCE OF TESTING AFTER CYBERSECURITY TRAINING



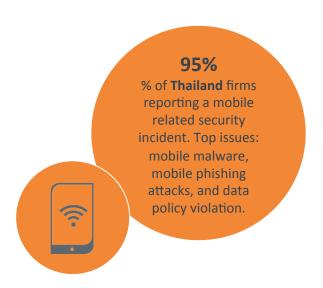
HUMAN ERROR A MAJOR CONTRIBUTOR TO SECURITY RISK



TOP SOURCES OF HUMAN CYBERSECURITY ERROR

Among Thailand businesses

- 1. General carelessness
- 2. Lack of expertise with networks, servers and other infrastructure
- 3. Lack of expertise with websites and applications
- 4. End user failure to follow policies and procedures
- 5. Failure to get up to speed on new threats
- 6. IT staff failure to follow policies and procedures



Summary for the United Arab Emirates



April 2016

EXECUTIVE SUMMARY

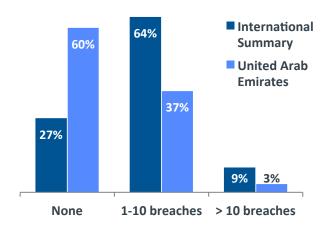
The importance of information technology (IT) security continues to grow. About 8 in 10 managers responsible for security at their firms across the 12 countries covered in CompTIA's International Trends in Cybersecurity expect security to become an even higher priority over the next two years (79% net of moderately higher + significantly higher). Anticipated priority two years from now is significantly higher among firms in Maturing Economies (86% net higher) vs. those in Mature Economies (68% net higher). Nearly 8 in 10 businesses in the United Arab Emirates (UAE) expect IT security to grow in importance (79% net higher).

Due to the evolving nature of IT, the great majority of organizations have had to respond by changing the way their company approaches security. In most of the countries surveyed, one of the greatest factors has been the change in IT operations, especially as firms move to the cloud or implement new mobility strategies.

Another significant driver of change in security approach is reports of security breaches at other firms. Furthermore, across all the companies surveyed, nearly three-quarters report having at least one security breach/incident* in the past 12 months (73%).

OCCURRENCE OF SECURITY BREACHES

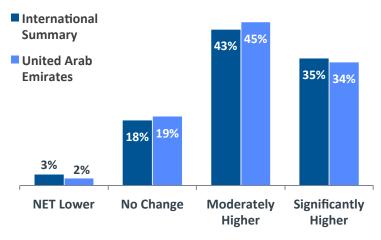
Over the past 12 months

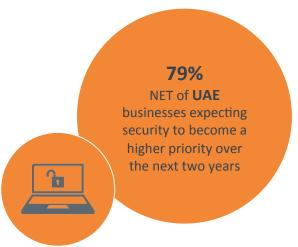


^{*}Stemming from internal or external causes.

IMPORTANCE OF CYBERSECURITY

Expected priority in 2 years from today





TOP DRIVERS FOR CHANGING APPROACHES TO CYBERSECURITY

Among UAE businesses

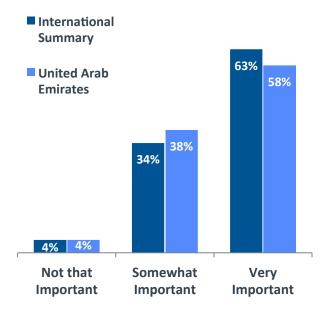
- 1. Reports of security breaches at other firms
- 2. Change in management
- 3. Change in business operations or client base
- 4. Focus on a new industry vertical
- 5. Knowledge gained from training/certification
- 6. Change in IT operations (e.g. cloud, mobility)



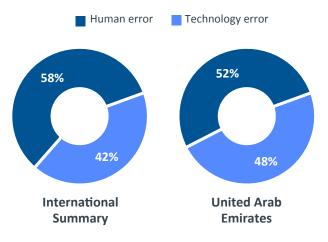
While 4 in 10 organizations in the UAE experienced at least one security incident, about 3 in 10 had one or more serious breaches. Human error is becoming more of a factor in security breaches for most companies, especially for those in Maturing Economies (64% net overall significantly more + moderately more). In the UAE, it is more of a factor now vs. two years ago for more than a third (39% net human error more of a factor).

On the brighter side, the majority of firms use some type of security training to assess or improve security knowledge among employees such as new employee orientation, ongoing security training programs, random security audits, online courses, etc. (92% overall and 79% in the UAE). And nearly all managers believe it is important to test after IT security training to confirm knowledge gains (96% net very important + somewhat important overall as well as in the UAE). Moreover, employers in Maturing Economies especially find IT security certifications to be very valuable (49%) compared to those in Mature Economies (25%). Three-quarters of managers in the UAE indicate that IT security certifications are very valuable (43%) or valuable (32%) in terms of validating security-related knowledge/skills or evaluating job candidates.

IMPORTANCE OF TESTING AFTER CYBERSECURITY TRAINING



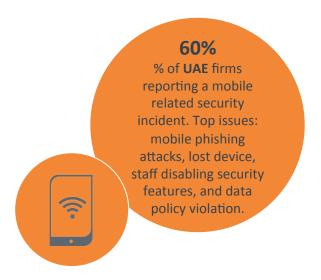
HUMAN ERROR A MAJOR CONTRIBUTOR TO SECURITY RISK



TOP SOURCES OF HUMAN CYBERSECURITY ERROR

Among UAE businesses

- 1. End user failure to follow policies and procedures
- 2. General carelessness
- 3. Lack of expertise with networks, servers and other infrastructure
- 4. Lack of expertise with websites and applications
- 5. Intentional disabling of security features
- 6. Failure to get up to speed on new threats



Summary for the United Kingdom



April 2016

EXECUTIVE SUMMARY

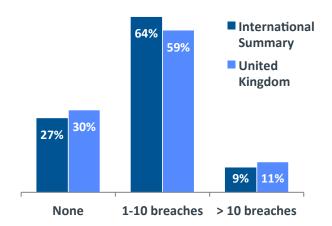
The importance of information technology (IT) security continues to grow. About 8 in 10 managers responsible for security at their firms across the 12 countries covered in CompTIA's International Trends in Cybersecurity expect security to become an even higher priority over the next two years (79% net of moderately higher + significantly higher). Anticipated priority two years from now is significantly higher among firms in Maturing Economies (86% net higher) vs. those in Mature Economies (68% net higher). Nearly two-thirds of businesses in the United Kingdom (UK) expect IT security to grow in importance (66% net higher).

Due to the evolving nature of IT, the great majority of organisations have had to respond by changing the way their company approaches security. In the UK, similar to many of the other countries, the greatest factor has been the change in IT operations, especially as firms move to the cloud or implement new mobility strategies.

Another significant driver of change in security approach is internal security breaches. Furthermore, across all the companies surveyed, nearly three-quarters report having at least one security breach/incident* in the past 12 months (73%).

OCCURRENCE OF SECURITY BREACHES

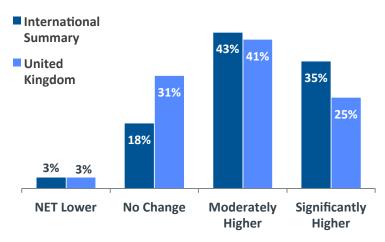
Over the past 12 months

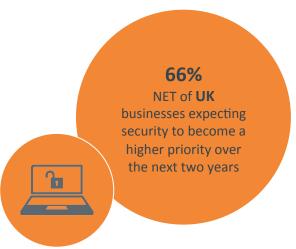


^{*}Stemming from internal or external causes.

IMPORTANCE OF CYBERSECURITY

Expected priority in 2 years from today





TOP DRIVERS FOR CHANGING APPROACHES TO CYBERSECURITY

Among UK businesses

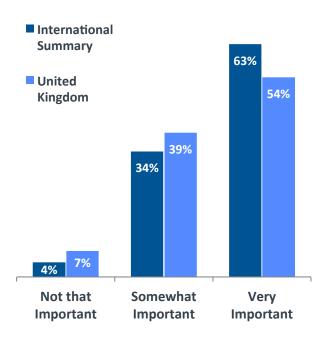
- 1. Change in IT operations (e.g. cloud, mobility)
- 2. Internal security breach or incident
- 3. Change in business operations or client base
- 4. Reports of security breaches at other firms
- 5. Change in management



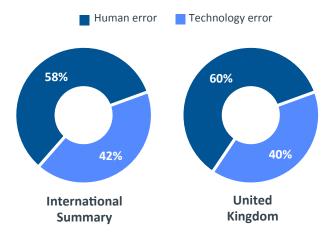
While 7 in 10 UK organisations experienced at least one security incident, slightly over half had one or more serious breaches. Human error is becoming more of a factor in security breaches for most companies, especially for those in Maturing Economies (64% net overall significantly more + moderately more). In the UK, it is more of a factor now vs. two years ago for more than half (56% net human error more of a factor).

On the brighter side, roughly 9 in 10 firms use some type of security training to assess or improve security knowledge among employees such as new employee orientation, ongoing security training programs, random security audits, online courses, etc. (92% overall and 90% in the UK). And most managers believe it is important to test after IT security training to confirm knowledge gains (93% net very important + somewhat important in the UK). Moreover, employers in Maturing Economies especially find IT security certifications to be very valuable (49%) compared to those in Mature Economies (25%). Nearly two-thirds of UK managers indicate that IT security certifications are very valuable (33%) or valuable (32%) in terms of validating security-related knowledge/skills or evaluating job candidates.

IMPORTANCE OF TESTING AFTER CYBERSECURITY TRAINING



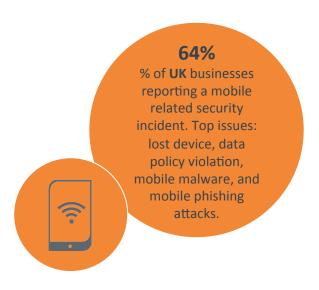
HUMAN ERROR A MAJOR CONTRIBUTOR TO SECURITY RISK



TOP SOURCES OF HUMAN CYBERSECURITY ERROR

Among UK businesses

- 1. General carelessness
- 2. IT staff failure to follow policies and procedures
- 3. End user failure to follow policies and procedures
- 4. Lack of expertise with networks, servers and other infrastructure
- 5. Lack of expertise with websites and applications
- 6. Failure to get up to speed on new threats



RESEARCH METHODOLOGY

CompTIA's International Trends in Cybersecurity was conducted to collect and share quantitative information on behaviors, techniques, and opportunities associated with IT security across 12 countries. More information and all country snapshots are available at CompTIA.org/internationalsecurity.

A total of 1,509 IT and business executives participated in the online survey during January – February 2016, yielding an overall margin of sampling error at 95% confidence of +/- 2.5 percentage points. Sampling error is larger for subgroups of the data.

As with any survey, sampling error is only one source of possible error. While non-sampling error cannot be accurately calculated, precautionary steps were taken in all phases of the survey design, collection and processing of the data to minimize its influence.

CompTIA is a member of the Marketing Research Association and abides by its guidelines for survey best practices and research ethics.

CompTIA is responsible for all content contained in this report. Any questions regarding the study should be directed to CompTIA Research and Market Intelligence staff at research@comptia.org.

Job Role

JOB INC	vic .
22%	Executive Mgt. (CEO, President, Owner, etc.)
23%	Senior Mgt. – IT function (CIO, CSO, VP, etc.)
10%	Middle Mgt. – IT function (Director, Team Lead)
11%	Staff level – IT function
21%	Senior Mgt. – Business function (CFO, VP, etc.)
6%	Middle Mgt. – Business (Director, Team Lead)
8%	IT Consultant

SURVEY DEMOGRAPHICS

Firm Size

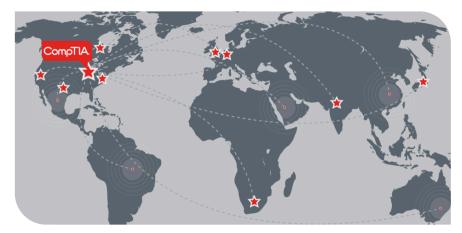
5%	Micro firm (5 to 9 employees)
34%	Small firm (10 to 99 employees)
30%	Medium firm (100 to 499 employees)
30%	Large firm (500 or more employees)

Primary Industry

Primary Industry				
20%	Information Technology (IT)			
14%	Manufacturing (other than IT related)			
11%	Professional services (other than IT related)			
10%	Retail/Wholesale (other than IT related)			
6%	Healthcare/Medical			
8%	Financial/Banking/Insurance			
2%	Media/Publishing/Entertainment			
3%	Government (federal, state, local)			
7%	AMTUC (Agriculture, Mining, Transportation, Utilities,			
	Construction)			
6%	Education			
3%	Hospitality			
9%	Other industry			

Countries

n	Maturing Economies	n	Mature Economies
126	Brazil	125	Australia
131	India	125	Canada
125	Malaysia	125	Germany
126	Mexico	125	Japan
125	South Africa	125	UK
125	Thailand		
126	UAE		
884	Total Maturing	625	Total Mature
1,509	Total number of respondents in the study		



ABOUT COMPTIA

CompTIA is the voice of the world's information technology (IT) industry and workforce.

Its members are the companies at the forefront of innovation; and the professionals responsible for maximizing the benefits organizations receive from their investments in technology.

CompTIA is dedicated to advancing industry growth through educational programs, market research, networking events, professional certifications, and public policy advocacy.

