



The state of IT and OT convergence in Taiwan



The way that businesses use technology is evolving at a rapid pace. Tech-driven innovation is a key battleground for competitive differentiation across industries and markets, as organisations embrace the Internet of Things (IoT), big data, Artificial Intelligence (AI), cloud, and modern network technology as part of a push towards Industry 4.0.

Building interconnected digital value chains requires organisations to unify traditionally separate processes across Information Technology (IT) and Operational Technology (OT). This convergence of IT and OT helps businesses achieve new levels of growth and operational scale, although it raises critical security challenges that can be difficult to address.

Telstra commissioned technology research company Omdia to assess the state of IT and OT convergence in North Asia, including China, Hong Kong, South Korea, Japan and Taiwan. While 85% of firms expect business benefits from convergence, many find it difficult to manage cybersecurity challenges.

Despite some common hurdles, each market shows interesting distinctions. Here are some key barriers and enablers for IT/OT convergence in Taiwan.

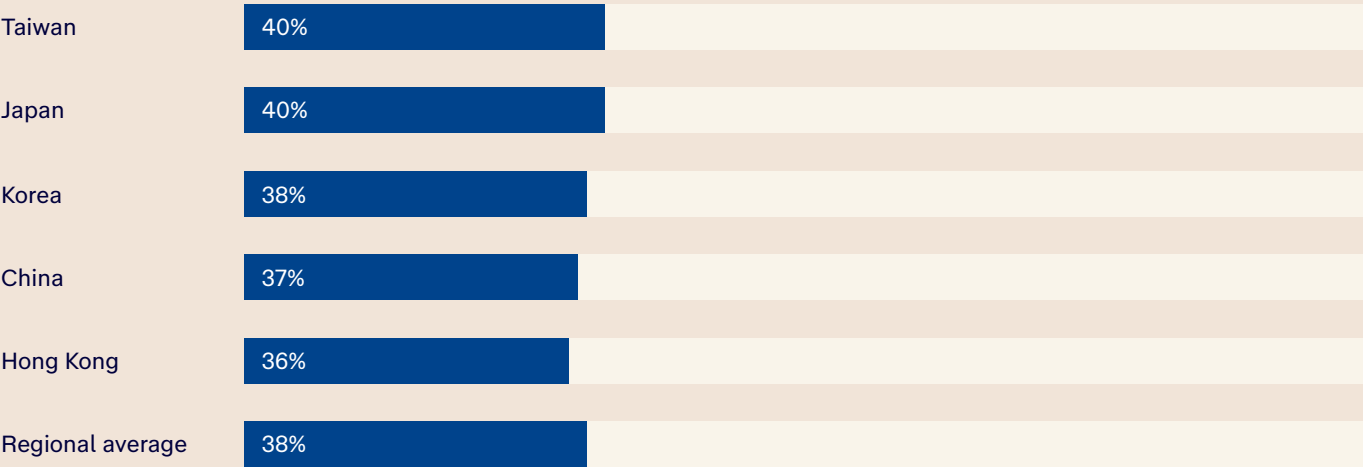
IT/OT maturity in Taiwan

Taiwan has the equal-highest levels (with Japan) of IT/OT system integration in North Asia, with 40% of IT and OT systems integrated across industrial settings, compared to a regional average of 38% (see Figure 1).

Just 20% of firms have completed some level of digitisation to connect IT and OT systems, well below the regional average of 34% and the lowest in the region. However, over half (54%) have integration activities in progress (the highest in the region), compared to 43% across markets.

Most Taiwanese firms (55%) plan to have IT and OT well integrated in the next 12 to 18 months, although only 36% see it as important for business outcomes (the lowest in North Asia), compared to a cross-region average of 48%.

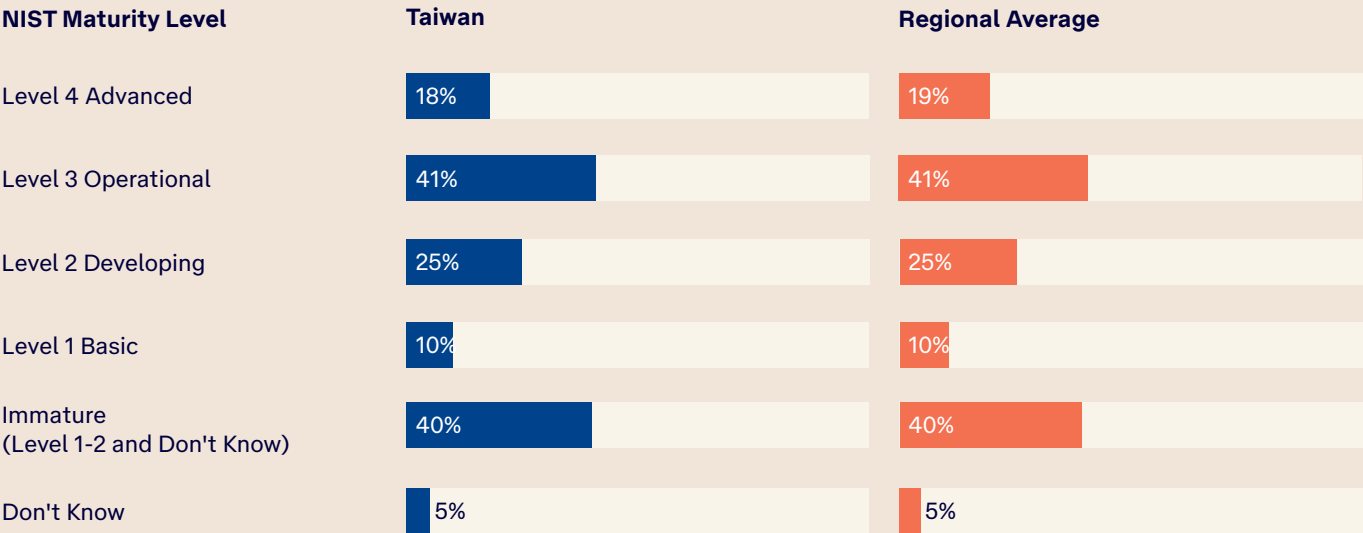
Figure 1: Percentage of IT/OT integration by market



OT security maturity in Taiwan

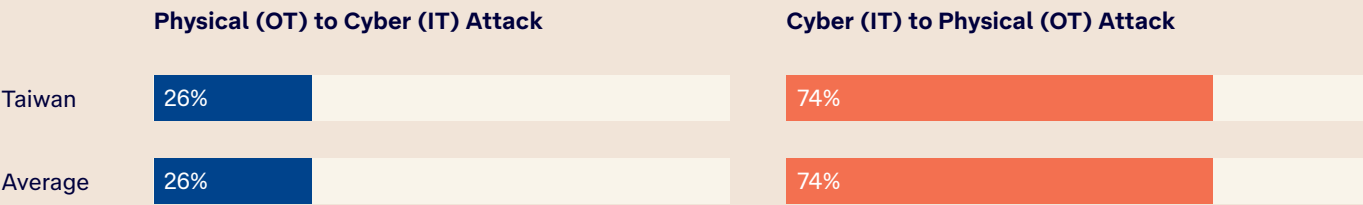
Taiwan is the third-most mature market when it comes to OT security, with 18% of firms saying they’re ‘advanced’ in securing OT, just short of the cross-region average of 19%. As with all other markets, overall IT/OT security is sub-optimal, with 40% of firms reporting immature levels (see Figure 2).

Figure 2: OT security maturity in Taiwan



In Taiwan, 74% of the most significant major security incidents or breaches that impacted operations started in cyber (IT), with 26% starting in OT (see Figure 3). That’s consistent with the rest of the region and highlights the risk of how attacks targeting IT can impact operational processes and technology as convergence progresses.

Figure 3: Origin of attacks on organisations



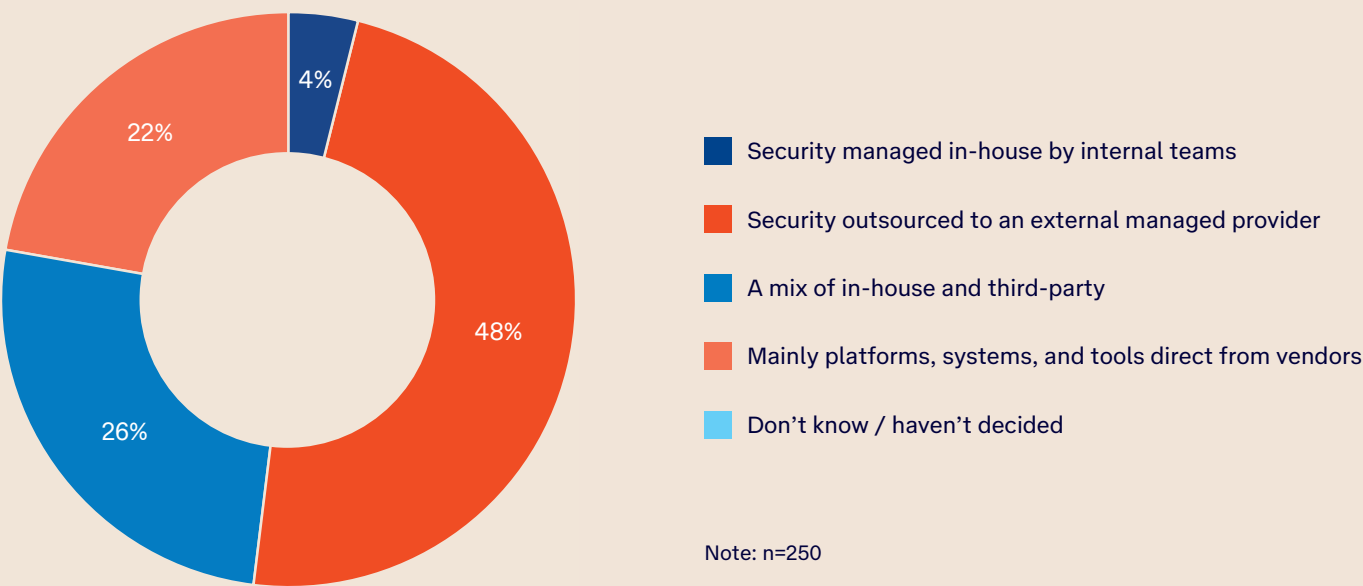
Calling in outside help

Finding the right talent to help manage the complexity of IT/OT convergence is incredibly challenging for many organisations. Risks often mount very quickly, as threats that target one previously siloed system can rapidly have a broader impact on critical business data and processes once integrated.

That's why most firms across North Asia plan to engage a third party to help them manage IT and OT security in the next 18 months, with 42% saying they'll completely outsource security to an external managed services provider.

The need for third-party help is strong in Taiwan, with 74% of firms planning to outsource to an external provider (either completely or in a mixed arrangement), while just 4% plan to go it alone and 22% say they'll rely largely on vendor platforms, systems, and tools (see Figure 4).

Figure 4: How will your organisation likely manage IT and OT security 18 months from now?



With a team of trusted IT and OT security experts, Telstra is fully equipped to help North Asian organisations take the next step on their IT/OT convergence journeys. To learn more about how convergence can transform your business, get in touch with a Telstra representative or download the full white paper at telstra.com/securing-ot-it-convergence-whitepaper



Want to learn more about how to improve IT and OT security in your organisation?

Contact your Telstra account representative for more details.

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