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Iranian Space Capabilities and Support to Military Operations



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INSIDE THIS ISSUE



This issue of Red Diamond features a variety of articles focused on Iran. While our readers typically expect a tactical-level focus from our articles, this issue expands that context to a more strategic level as a result of real-time events at the time of production, and the expertise of our featured guest authors. Understanding why Iran behaves the way it does will facilitate faithful emulation of Iranian

analogs in training scenario development and execution.

Of particular interest are feature articles by renowned Iranian subject matter experts Joseph Fallon and Michael Rubin. Joseph Fallon, currently at the think tank UK Defence Forum, places Iranian foreign policy in historical context, arguing that the present Iranian regime's actions are consistent with the objectives of its predecessors—preservation of the regime by protecting independence and securing territorial integrity. Michael Rubin of the American Enterprise Institute explores the complexities of Iran-Iraq relations. He argues that Iranian interest in dominating its Western neighbor will never disappear, for myriad cultural, economic, and strategic reasons. Iran's ability to exert influence is only thwarted by continued Western commitment to ensuring Iraqi independence.

Jerry England explores how Iran's historically competing armed forces are becoming increasingly expeditionary and retaliatory, and improving their ability to coordinate their efforts. He highlights diverse Iranian capabilities and techniques, ranging from ballistic missiles to cyber-attack. Kevin Freese provides an overview of Iranian space programs, analyzing Iran's ability to support military operations through space and counter-space endeavors. Brad Marvel provides a sneak preview of TRADOC G2's upcoming Army Techniques Publication (ATP) 7-100.4, Iranian Tactics, planned for release in 2021. Finally, this issue provides a status report on updated entries within TRADOC G2's Worldwide Equipment Guide.

Regards, Editorial Staff



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by Colin Christopher, TRADOC G-2

ran's national goals are to expand the reach and relevance of its brand of Shi'a Islam across the Middle East and to assume a position of regional hegemony in line with its long history. Tehran views US influence in the region as its foremost barrier to these goals, and to secure them relies on the global use of proxy groups, terrorism, coercion, and the threat and employment of armed force to target the United States and its partners and allies. One of Iran's primary tools of coercion and force projection is its missile arsenal, which is characterized by increasing numbers of relatively sophisticated systems with improved accuracy, range, and lethality. Recently, Tehran employed its ballistic missiles in a strike against US installations in Iraq. Though the operation was clearly symbolic, Iran's response showcased advanced capabilities revealing a more capable adversary with an ability to challenge the US Army.

Overview of the strike

On January 7, 2020, Iran launched multiple short range ballistic missiles (SRBMs) from three locations within Iran against US Forces in Iraq. The missiles struck two airbases; Ayn Al Asad in western Iraq and an airbase at Erbil in northern Iraq. Al Asad airbase serves as an operational center for US military operations in western Iraq and Erbil is a staging site for special operations, including operations in northern Iraq and Syria. The attack, code named Operation "Martyr Soleimani" by Iran, was in retaliation for the US drone strike that killed Iran's Islamic Revolutionary Guard Corps-Qods Force (IRCG-QF) Commander, Major-General Qassem Soleimani.¹

Iran launched sixteen SRBMs in two waves about an hour apart. Of the sixteen missiles launched, eleven hit Ayn Al Asad airbase, one hit Erbil's airbase, and four missiles malfunctioned.² Iran claims to have conducted "electronic war" during and after the strike, likely indicating they were attempting to jam US counter-strike assets.³ Diplomatic channels provided US forces warning prior to the strikes, which limited US casualties.⁴ Post-strike analysis revealed damage to structures, equipment, cratered runways, and traumatic brain injuries to dozens of US service members.⁵ The lack of US fatalities, combined with the early political warning, led to relatively rapid de-escalation, and since the attack both sides have continued tense diplomacy.



Figure 1. Map of Missile Strike Locations Source: TRADOC G2.

Implications of Iran's Response

Missile Precision & Scale Progression

The attack against US forces revealed Iran's current capability to fire different types of SRBMs at targets with better precision. They launched a barrage of SRBMs from three locations within Iran and 75% of those struck their intended target. Previous Iranian missile launches were estimated to strike within 250 meters (m) of the intended target. Open source imagery analysis of this missile strike suggested an accuracy of within 12 m.⁶ Iran's SRBMs were a mix of solid and liquid fueled propellants fired from both mobile and stationary platforms with ranges of 500–800 kilometers.⁷ The missiles were equipped with satellite navigation guidance (SATNAV) and maneuverable reentry vehicle (MaRV) to enhance precision.⁸

Iran's domestic missile program dedicates major resources to the progress and development of a variety of missiles capable of threatening deployed US forces, allies, and partners. In addition to domestic missile production Iran benefits extensively from foreign procurement. They leverage countries like North Korea and Russia to extend missile variety and range, and add new generations of ballistic missiles into their force. Part of Tehran's desire to add new generations of ballistic missiles includes motivation to produce their own intercontinental ballistic missile (ICBM). Iran's emerging space program, the Iranian Space Agency (ISA) has created a variety of space launch vehicles (SLV) with each iteration more capable of carrying heavier payloads to space. ICBMs and SLVs share

similar technology and Tehran can use ISA towards creating ICBMs. Further ambitions include increasing medium-range ballistic missile (MRBM) capacity and expanding cruise missile capabilities. ¹⁰ Iran is quickly evolving missile capability and the latest missile strike validates they can challenge their enemies with more proficient longer range fires.

Integrated Electronic Warfare

Iran utilizes modern electronic warfare (EW) equipment to protect high-value military assets. Brigadier General Amir Ali Hajizadeh, commander of IRGC Aerospace Force, claimed Iran employed jamming during and

after the strikes, likely a defensive protocol to protect against a US counterstrike. The Iranian government has satellite communications and GPS jamming capabilities, which Tehran previously showcased by jamming ships traveling through the Strait of Hormuz, according to analysis by the Defense Intelligence Agency. 11 In May 2019, commercial shipping companies reported GPS interference and communications jamming ultimately attributed to Iranian Naval forces in the area. Ships navigating the region also reported spoofed communications from unknown entities falsely claiming to be US or coalition warships. 12 Iran continues to seek considerable advances in EW systems to defend military ground and naval assets. Foreign acquisition from countries such as Russia and China has allowed Iran to bolster and modernize its EW. They were able to use this event as evidence of current countermeasures and boast of their progression in EW capabilities.

Asymmetric Retaliation

Iran's Supreme Leader Ayatollah Ali Khamenei insinuated Iran will execute additional retaliatory measures beyond the missile strikes. He stated, "This [the strike] was just a slap in the face last night." Despite Khamenei's public threat, Iran will likely limit overt military actions in favor of covert operations by both IRGC-QF and state-sponsored proxies. Additionally, these retaliatory operations will occur at a time and place of Iran's choosing, possibly in terms of months or years vice days or weeks. Covert actions could include a range of operations from militia groups conducting military attacks to sophisticated cyber

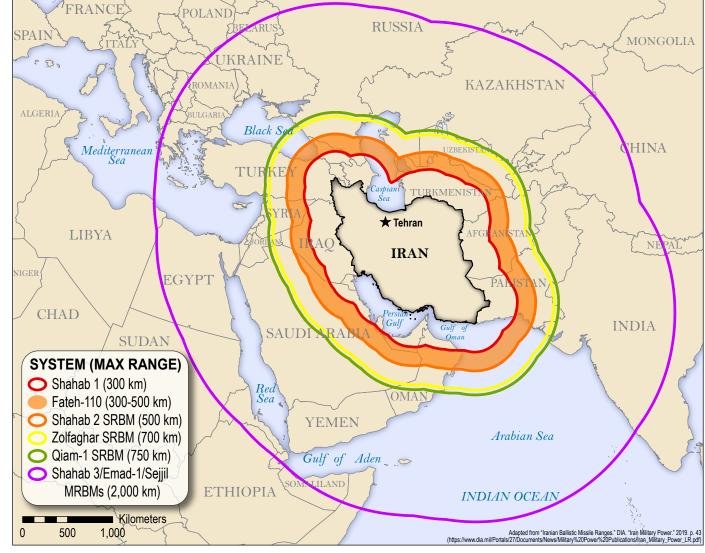


Figure 2. Types and ranges of Iranian missiles

warfare. In response to the 2010 Stuxnet cyber-attack, Iran focused on increasing cyber warfare capabilities, including cyber defense and cyber-attack. They have state-sponsored cyber groups capable of launching significant attacks on critical infrastructure. ¹⁴ The use of proxy groups gives Iran flexibility in attack timing, plausible deniability, generates stand-off, and exploits political ambiguity and strategic posture.

Iranian Diplomacy

It has been almost 30 years since the last successful ballistic missile strike targeted US support areas. In 1991, Iraqi forces successfully struck US forces based in Riyadh, Saudi Arabia killing 27 and injuring dozens more. In 2003, Iraq again struck a US Operational Support Area in Kuwait with two missiles, but caused no casualties. During the recent Iranian missile strike Iraq's Prime Minister confirmed Iran provided warning to Baghdad 90 minutes prior to the strikes. The warning stated that a strike against US targets in Iraq was

imminent and indicated that while the missiles would hit targets on Iraqi soil, they would be aimed only at US military assets.¹⁷ Both bases lacked surface-to-air missile defenses protecting against a conventional missile strike. If it were not for diplomatic channels warning of an imminent attack US casualties could have been heavier. Iran exhibited skilled diplomacy. Assessing certain retaliation if any US forces were killed, Iran took an opportunity to conduct a spectacular attack while diplomatically safeguarding against retribution.

<u>Information Operations</u>

Since the Soleimani strike, Iran has waged a targeted information operations (IO) campaign attempting to recruit and garner support with online propaganda exploiting Soleimani's death. As the confrontation with the US escalated from competition to crisis the rhetoric grew increasingly aggressive. Information operations have been part of Iran's arsenal since the Islamic Revolution. With the start of social media's exponential

expansion, Iran's IO gravitated online becoming a covert alternative to military confrontation. Statesponsored proxies wage campaigns on social media to spread pro-Iranian talking points in the Middle East and abroad. Iran's current online IO campaign will likely enhance recruiting opportunities for state-sponsored proxies and continue to attempt to sway regional and global public opinion in Iran's favor.

Conclusion

This crisis demonstrated how Iran can use a sliding scale of options to respond to perceived US aggression. It also showed how a regional adversary can rapidly move seamlessly back and forth from competition to

crisis challenging the US Army. After the Soleimani strike, Iran employed information operations in an attempt to control the narrative both regionally and globally in their favor. Iran's SRBM attack on US forces in Iraq demonstrated the vulnerability of fixed facilities to the full spectrum of longer range, more accurate weapons. For US adversaries, Iran unveiled US military's lack of preparation, details of passive defense measures protecting combat troops and precedent to how the US could respond when competition quickly transitions to crisis. Iran's response clearly indicates a capable regional adversary with global reach, possessing capabilities the US Army has not trained for during counter-insurgency or counterterrorism operations. •

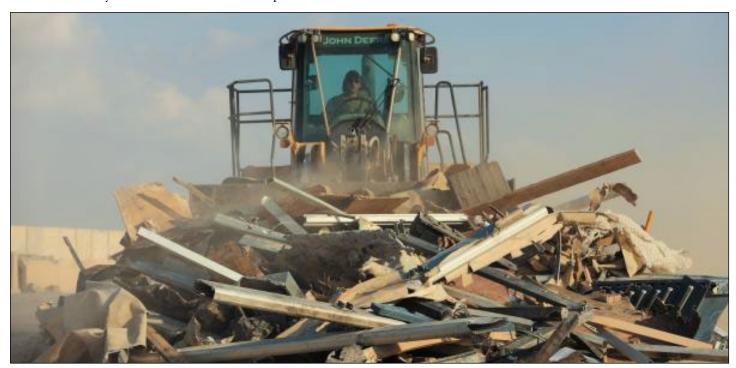


Figure 3. Al Asad Airbase Destruction

Source: https://www.dvidshub.net/image/6024515/ballistic-missile-attack-brings-unprecedented-amount-media-al-asad-airbase

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Retaliatory Tactics of the Iranian Military

By Jerry England, OE&TA

he Iranian military's mission is to defend the Iranian Revolution by protecting the leadership of the Islamic Republic and maintaining territorial integrity. However, renewed levels of cooperation between the Artesh (Army) and the Islamic Revolutionary Guard Corps' (IRGC's) are making Iran's combat forces increasingly expeditionary under the current leadership, especially when retaliating against perceived threats. The Iranian Armed Forces "Mosaic Defense" doctrine calls for both the Artesh and the IRGC to collaborate in times of war, it also allows for significant capabilities to be positioned throughout the region in order to prevent the Islamic Republic's enemies from establishing a lasting presence in the Middle East. A renewed emphasis on joint command and control structures such as the reestablishment of the Khatam al-Anbiva Central Headquarters, has allowed combat forces to better synchronize and coordinate efforts both domestically and abroad.1

On 2 January 2020, IRGC Qods Forces leader Qasem Soleimani was killed in a missile strike at the Baghdad International Airport. Well known as the architect of the IRGC's operations in Iraq and Syria, Soleimani had been instrumental in refining the tactics and techniques of the Iranian military in the 21st century. After his death, missile strikes from Iran and its proxies hit targets at the US embassy in Baghdad as well as the US military installations in the Iraqi western desert. Additionally, a stretch of nuisance type cyberattacks hit organizations in the US and the Middle East.³ While both reactions to the attack are not considered significant when pitted against the defense posture of the United States, the fact that they occurred in relative short order displays Iran's ability to respond in kind when threatened. In fact, the nature of both the missile attack and the low level cyber activities illustrate how the Iranian government will likely respond in the future.

The joining of the Artesh and the IRGC, along with an increasing tolerance for risk has given the Iranian regime the ability to retaliate significantly to attempts to curtail its foreign policies. The historically rival organizations have managed to put their differences aside in order to posture the military for the 21st century. Using low-risk high-payoff tactics and techniques, the Iranian military has increased its operational reach. This new expeditionary capability is being sustained throughout the region even while under strict international sanctions. Asymmetric capabilities such as long range fires, unconventional warfare operations, and information warfare (INFOWAR) are being tested and refined in an effort to establish the regime as the protector of the traditional balance of Middle Eastern power.2

Selected Iranian Ballistic Missiles



Iranian Ballistic Missiles Source: DIA.

i. The IRGC's unconventional warfare element the Qods Forces was under the leadership of Major General Qasem Soleimani for more than twenty years until his death in January 2020. The new leader Brigadier General Esmail Qaani is expected to continue the modus operandi of Soleimani.

Three recent examples illustrate the regime's retaliatory capabilities and techniques and are instructive when assessing potential responses to attempts to control or curtail the Iranian government's counterproductive behavior. First are the missile strikes on the Deir-ez-zor province in Syria in 2017 and 2018 after the terrorist attacks on Iranian government and military facilities. Second is the September 2015 surge of Iranian troops in support of the Syrian Arab Army in Aleppo. Finally are the cyberattacks on oil giant Saudi Aramco and the US financial sector after the Stuxnet worm damaged Iran's nuclear facility in Nantanz. Each event has given Iran the opportunity to display its military capability in terms of command and control, international influence, and advancements in technology.

Distant Danger: 2017 & 2018 Missile strikes on Deir Ez-Zor province.

On 7 June 2017 two terrorist attacks—one against the Iranian Parliament building and the other against the Shrine of Imam Khomeini (a religious shrine) occurred within minutes of each other. The attacks resulted in approximately 12 people killed and 40 wounded. The terrorist group the Islamic State (ISIS) claimed credit for the attack.4 Iranian officials accused various regional actors as well as the United States of masterminding the attack.⁵ Eleven days later four short range ballistic missiles (SRBMs) rained down on the town of Deir Ez-Zor in Syria. Launched from the Kermanshah Missile site, the missiles traversed Iraqi airspace and inflicted damage an estimated 650km away. Reported to be the first time the Iranian strategic forces had used the Shahab-3 missile since 1988, the attack came just 11 days after the United States Senate passed a bill countering Iran's destabilizing activities.⁷

A little over a year later, after another terrorist attack on a military parade at the Southwest Operational Headquarters in Ahvaz, Iran's missile forces responded again, this time against the de facto headquarters for ISIS in the town of Hajin. Similarly, the missile strike was fired from the Kermanshah Missile Site and hit in the vicinity of ISIS compounds over 550km away.⁸ Iranian backed militia members in the area commented that Iran had coordinated with Syrian and Russian authorities before the operation.⁹ These two operations represented not only Iran's improving ballistic missile capability but more importantly Iran's ability to synchronize and coordinate operations among its allies.

The Iranian military has the largest and most diverse arsenals of ballistic missiles in the Middle East. The majority of these are short range missiles with a maximum range of 700km. Iran now has several types of short range and medium range missiles thanks in

part to adapted foreign technology and an ambitious space program.¹⁰ For example, the Zolfaghar missiles used in the 2017 and 2018 attacks use solid fuel engine technology possibly obtained from China.¹¹

An integral part of the Iranian "Mosaic" defense strategy, the missile forces are mainly reserved for engaging extra-regional targets as part of an anti-access area denial (A2AD) plan that attempts to engage threats inside the enemy support zone in order to prevent the establishment of a foothold for future operations. However, recently Iran has expanded the role of its missile capability beyond this traditional A2AD role into an offensive and information warfare weapon. The attacks were less about casualties and more about conveying the message that Iran can compete with technologically advanced nations in terms of long range fires. While the assessments vary widely about the actual damage done in these two attacks, Iran's regime can claim military legitimacy with its regional allies as well as Iranian citizens.

After achieving relative competence in missile technology, Iran's arsenal of ballistic missiles is becoming the greatest security threat in the region and there is clear evidence that Iran is transferring the knowledge to its proxies in the Middle East.¹² Hezbollah forces in Lebanon are said to possess over 100,000 missiles, many of which are from Iran. In Yemen, Houthi rebels have launched Iranian missiles—including the SCAD based liquid fuel Qiam SRBM—against Saudi Arabian targets.¹³ In Iraq, the various Iranian backed militias within the Popular Mobilization Forces (PMF) have added SRBMs to their arsenal on unguided rockets since their inception in 2014.14 Systems included the Zelzel, Fateh-110, and the Zolfighar missiles which are all solid fuel systems designed to be easily stored, transported and fired in the heavily contested Iraqi battlespace.¹⁵

The IRGC's Flying Columns: The 2015 Surge in Syria

In the fall of 2015 the IRGC reportedly increased the number of fighters in Syria from 700 to 3,000 in direct support to the Syrian and Russian offensive in Aleppo and the surrounding countryside. In 2013 Syrian rebels armed with newly acquired weapons had made significant advances in Aleppo including seizing two area air force bases. After two years of losing ground in a bitter urban war of attrition in Aleppo, the allies of Bashar al Assad decided that only a full scale multi domain offensive would dislodge the enemy from his battle positions throughout the city. With support from Russian ground attack planes, the IRGC provided leadership to a large contingent of local and regional militias as well as Syrian regular army forces. In

The IRGC and the Iranian government had been involved in the conflict since the beginning providing economic assistance and indirect military aid through the terrorist organization Hezbollah. However, faced with a shortage of competent leadership and increasing defections from the Syrian Arab Army's mostly Sunni conscript forces, the IRGC adopted an expeditionary approach to regional conflicts. By providing IRGC Qods Force commandos, Artesh Special Forces, and militia fighters from Iraq and Afghanistan, the IRGC has managed to mobilize a joint combined force in support of the Assad regime.

Foreign recruits supported the regime in the hopes of receiving training and experience as well as pay and benefits from the Iranian government; in some cases, the chance to obtain Iranian citizenship for service in Syria was offered. In IRGC forces have trained and supported Syria's military as well, including establishing a citizen Army similar to the Basij (the domestic militia that is used to control and intimidate the Iranian citizenry). The support to Syria in 2015 was a significant step in the continuing military and economic aid program supporting the dictatorship of Bashar al Assad and represented a proof of concept for the strategy of mobilizing significant forces beyond Iranian territory.

This unprecedented support from Iran for the Syrian regime stemmed from a long history of cooperation between Iran's theocratic government and the ruling Assad family who are considered to be members of a sect of Shi'ism. Through religious and political ties, Iranian officials have been able to intercede in not just Syria but Iraq, Yemen, and Lebanon as well, effectively using social services to gain support for military operations. Began in 1959 as a religious charity organization (filling the gap in governmental supply of services Shi'a dominated South Lebanon), the "Movement of the Deprived" evolved into the Amal movement and was eventually subsumed in the 1980's by Hezbollah with the help of the Iranian government.²⁰ Known as the "Hezbollah Model," this mix of both military and soft power is leveraged to disrupt operations against regional threats and to prevent the power projection of forces seeking to stop the spread of Iranian influence.²¹

At the early stages of the Syrian civil war, Iranian officials recognized the damage the loss of Damascus to their "Golden Ring" of security would cause. Iranian Qods Forces along with the terrorist group Hezbollah were able to build support for Bashar al Assad's regime by retraining Syrian police forces and legitimizing the local pro regime militias known as "Shabiha" into the National Defense Force (NDF). The NDF and the newly trained police operated in a way that allowed

Syrian citizens loyal to Assad's regime to defend their homes against internal and external threats without enlisting in the Syrian Army and risking having to leave their families and property. With advisors from IRGC units, the NDF increased the footprint of government loyalists and freed resources for offensive operations. This approach increased recruitment by allowing members to remain at home and act as an operational reserve rather than deploy around the country.²² The ability to keep forces in place allowed the Syrian regime to hold territory once it was cleared through offensive action.

The techniques of supporting proxies through military support and weapons was further refined in Iraq against United States forces, by training and advising militias on the art of guerilla warfare. This model will continue to be exported into Middle Eastern conflicts as the Iranian military uses it to maintain control over its ideal of the traditional balance of power.

Other regional conflicts outside of Syria influenced by Iran's IRGC forces include Yemen, Lebanon, and Iraq. In Yemen, the Iranian military support along with a lack of Western attention has allowed the Iranian regime to support cross border attacks against Saudi Arabia's military and oil infrastructure using a combination of direct action and surface to surface missiles.²³ The transfer of unmanned system technology and other forms of standoff weaponry has allowed Iran to sustain the Houthi fight against the Yemen government while providing an opportunity to hit back at the Saudi regime.²⁴

Iranian unconventional warfare groups have also managed to replicate the Hezbollah Model in Iraq with the development of the Shi'a Popular Mobilization Force (PMF), an umbrella organization that recruits and trains militias for operations against regional threats deemed dangerous by the IRGC.²⁵ The PMF, under the guise of assisting the Iraqi government in its fight against the Sunni Islamist group ISIS, sealed off the northwestern quadrant of Mosul in order to prevent ISIS fighters from flowing into Syria to continue the fight against Bashar al Assad. This strategy was claimed to have not only cornered ISIS in its complex battle positions in Mosul but also to have increased Iraqi and allied casualties by prolonging the fight.²⁶ Now with much of the ISIS threat either destroyed or dispersed, some Iranian backed groups appear to be turning their attention to US forces in the region.²⁷

Establishing Order: INFOWAR and Perception Management

The IRGC adopts messages that use a range of themes including religious persecution, economic instability, and government corruption to combat "Westoxification" in the Middle East and highlight common interests with potential destabilizing elements among target audiences. The influence campaign is backed up not only with boots on the ground but with a range of activities designed to combat the loss of Iranian cultural identity. Among these activities are a range of social and educational services as well as arts and cultural events. Stabilizing programs such as welfare systems that provide survivor benefits to widows and children of martyrs, post combat reconstruction assistance, as well as security force assistance for underrepresented Shi'a populations adds legitimacy to the Iranian regime's foreign policy as they look for new ways to promote their interests.²⁸



Symbol for the Iranian Cyber Police Source: Wikipedia.

The use of online technologies such as Facebook, Twitter, and Telegraph for informing and influencing target populations is a relatively new technique for the expansion of influence and information programs throughout the region. However, hard lessons taught by protests throughout the region have forced the regime to leverage the new media for their own purposes. For example, the 2011 Arab Spring surprised Iranian leaders on multiple fronts as they were directly challenged for control over key allies in Syria, Lebanon, and Yemen and indirectly challenged throughout the region as competing narratives for revolutionary change began to emerge.²⁹ The paradoxical situation the regime found itself in after the start of the Arab Spring should not have come as a surprise, as not more than three years

prior the Iranian Green party—armed with cell phones and other social media platforms—constructed the largest mass protest in Iran since the 1979 revolution.³⁰

By 2013 Iran had managed to integrate social media as another platform to spread its propaganda, often highlighting the exploits of its proxy forces operating in Syria and throughout the region. Additionally, regime leaders have been known to engage the West and provide inspiration to those faithful to the revolution through social media platforms.³¹

It is expected that future Iranian regime efforts will try to use emerging data driven tools such as bots and artificial intelligence (AI) to continue to influence target audiences throughout the region while at the same time censoring and controlling both traditional and online media in Iran.³² A threat report by the Cyber security research firm FireEye, concluded that Iranian information operations are engaging in online social media driven influence operations as a way to shape political discussions.³³

Tailor Made Technology: Cyber Operations

The Iranian regime's adoption of standoff technologies along with the use of proxies and other third party entities to promote its agenda aligns with cyber operations as a low-risk high-payoff proposition. Since the formation of the original hacker forum Ashiyane in 2002, Iranian hackers have continued to flourish and have developed cyber capabilities for the government and military as well as domestic and foreign militias. The use of the Internet to respond to threats by attacking political, economic, and infrastructure information systems is an information warfare tool that is a fairly common retaliatory tactic.³⁴

The IRGC is known to engage in multiple cyber activities from counterfeiting computer software to the developing network reconnaissance tools, and has evolved since 2012 into a number of highly capable Advanced Persistent Threat (APT) groups. Despite initial low estimates of Iranian cyber capabilities, the regime developed them more rapidly than other powers to become the credible threat it is today targeting information systems across the full range of operational variables.

In June 2010, it was discovered that a sophisticated cyberattack named "Stuxnet" had been infecting a particular version of Microsoft Windows as well as the Iranian nuclear-enrichment facility in Nantanz since 2007. The Stuxnet worm was designed to sabotage a very specific supervisory control and data acquisition system (SCADA) called a programmable logic controller. The payload in the Stuxnet worm also

used four previously undiscovered vulnerabilities in the targeted system called zero day attacks—an unprecedented number for a single attack.

In the summer of 2012 after the revelation of the Stuxnet attack to groups outside the cyber community, two groups, the Cutting Sword of Justice and the Izz ad-Din al-Qassam Cyber Fighters launched a series of cyber counter attacks targeting global oil producer Saudi Aramco and the United States financial sector. The attacks against Saudi Aramco involved a cyber worm that spread like a virus across the oil giant's network. It was later revealed that the malware had infiltrated the network using an infected USB device similar to the attack vector used in the Stuxnet attack. Once on the targeted system, the cyber worm released a payload called "wiper" to erase data from more than 35,000 devices.36

The massive distributed denial of service (DDoS) campaign against the US financial sector was substantially larger than previous DDoS attacks in that the attackers used the power of banks' data centers to overwhelm the circuits and cause outages across major banks.³⁷ The use of the compromised cloud based resources as an attack platform made stopping the attack more difficult and allowed the hacker group to continue its operations at will.³⁸

The groups avoided direct ties to the regime, however the attacks' evidence such as source code and other digital fingerprints suggested that Iran was responsible. In 2016 six Iranian nationals were arrested for their suspected role in the attacks on the US financial sector.³⁹ The Cyber security firm FireEye has attributed the username of one of the developers of the Shamoon malware that struck Saudi Aramco to the Iranian Advanced Persistent Threat (APT) 33.40 How the Iranian experience of Stuxnet translated into increased cyber capabilities for the Islamic Republic is not specifically known, however, the subsequent attacks appeared to be more sophisticated than the previous nuisance type attacks which up until then included web defacements and posting anti-regime messages in online forums.41

The Iranian hacker community—like others in the region—has evolved mostly organically through online hacker forums and interactions across the Iranian tech industry. Iran is one of the most connected countries in the Middle East and has a rapidly emerging tech industry. Widespread Internet usage and the Iranian regime's early recognition of the significance



Symbol for the Iranian Military

of cyber operations has forced Iranian intelligence services to search for recruits for its cyber operations among hacker groups it might perceive as a threat. An advertisement for a government sponsored "Basij Cyber Battalion Empowerment Course," was offered at a military camp outside of Tehran to train the next generation of cyber soldiers for the Iranian regime. Courses included deploying counters and falsehoods for preparatory and operational stages of cyberattacks as well as "Specific Course in Trollist Operations." The increasing level of sophistication has resulted in attacks against US Government agencies and large scale denial of service attacks against private companies indicating a commitment by the Iranian government to exploit cyber vulnerabilities. 43

The Iranian government's cyber threat is believed to consist of multiple organizations with various links to the government either through the military or through commercial means. Each organization is considered to have their own distinct set of targets and objectives. According to an online video forum by FireEye, some of the tools and infrastructure used by Iranian cyber actors include implementation of refined techniques such as password spraying, wipers, and other software tools. Password spraying is a technically aggressive way of picking one or two accounts and methodically trying passwords over time. Once a password is guessed correctly, the data is exploited for other accounts.⁴⁴

Iranian actors appear to have developed a mature cyber security industry with groups specializing in particular political, military, and economic target sets. For example APT 34, (the name given by FireEye for an Iranian advance persistent threat group) is said to target personally identifiable information (PII) and collects large volumes of data on individuals of interest. Exploitation of cyber tools by FireEye revealed that APTs are managing their cyber capabilities with a large administrative apparatus that manages company data for contractors or front companies, shows which government operations support the government and reveals the unique coding and certification process for threat actors.

Still other hacker groups use social engineering techniques involving fake employment opportunities to get their victims to release malware. The themes—characterized as job lures—use the promise of employment and employment surveys as a way to offload their payloads. Many targets include Middle Eastern companies in the oil industry, hospitality, and airline (transportation) companies. The focus on hospitality and the airline industry has the added bonus of discovering the movements and patterns of life for persons of interest.

Most of the information sought by the APT 33 is strictly about gaining intelligence about businesses and government entities working in the Middle East. Targets can also include IT managers and those with privileged access as a means for reaching high value targets. The linkages to Iranian security organizations have been tied to the operations of APT 33.⁴⁵

The Iranian cyber force is an emerging full-scope cyber actor that is not only using well known cyber techniques, but is also developing new methods to steal information, penetrate public infrastructure and organizations, and disrupt the global information and communication infrastructure.

Implications

Iran's retaliatory tactics are lethal, technically advanced, and evolving at a pace that requires attention. Department of Defense forces that currently operate or will operate in the Middle East will have to consider the Iranian threat especially in times of heightened strategic tension. The techniques developed by the IRGC are being transferred to a broad range of threat actors and expanding the threat footprint to regions previously unaffected by the Iranian military.

Iran's need to build a self-sufficient military industry has forced Iranian weapons producers to make improvements on existing technologies and develop new means for their production. As these capabilities grow it is expected that the Iranian military will share them with their allies in a bid to reduce the chance for an unimpeded operation by US DoD forces. In this context the threat from indirect fire and possible small scale engagements are as prevalent as they were during the height of hostilities in Operation Iraqi Freedom.

Iran's cyber capability is also evolving however; as the rest of the world begins to recognize the threat potential cyberattacks can have on military operations, the Iranian cyber forces will need to invest more in order to keep up. Many enterprises can quickly recover from nuisance attacks and website defacements no matter how embarrassing they may be. The ability to exploit networked industrial control systems and other infrastructure can have a much greater impact, especially if DoD forces are operating in a region with poor private cyber security. Additionally, a successful cyberattack on an ally or partner nation may draw forces into an unforeseen situation for which they are unprepared. Knowledge of the information environment will be a critical component of any future operation.

As the US footprint is reduced in the region, Iran appears poised to finally seize the opportunity to capitalize on its status as the most developed military threat in the region. Successful Iranian military operations and a lack of attention to the Iranian government's intentions in its areas of interest will embolden future Iranian military involvement. The further refinement of the Iranian military's tactics and techniques will increase the risk of Iran evolving into a truly expeditionary force capable of further complicating potential crises. •

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Source: Author.

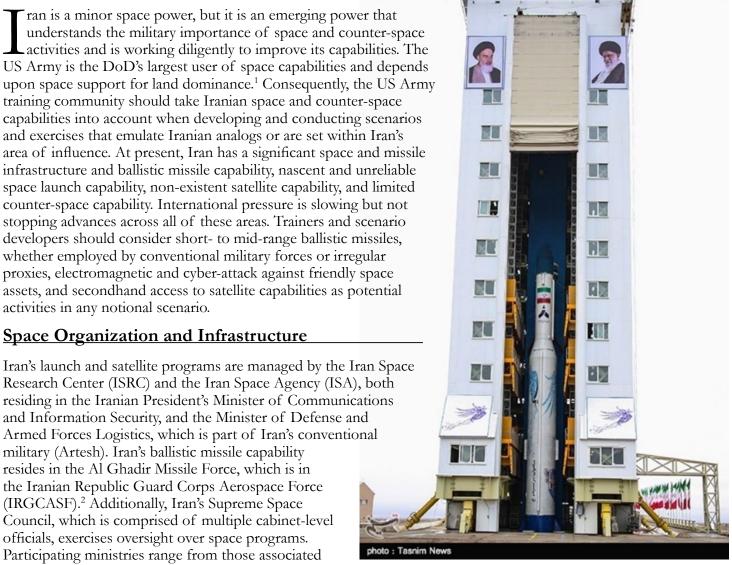
Iranian Space Capabilities and Support to Military Operations

ran is a minor space power, but it is an emerging power that understands the military importance of space and counter-space activities and is working diligently to improve its capabilities. The US Army is the DoD's largest user of space capabilities and depends upon space support for land dominance. Consequently, the US Army training community should take Iranian space and counter-space capabilities into account when developing and conducting scenarios and exercises that emulate Iranian analogs or are set within Iran's area of influence. At present, Iran has a significant space and missile infrastructure and ballistic missile capability, nascent and unreliable space launch capability, non-existent satellite capability, and limited counter-space capability. International pressure is slowing but not stopping advances across all of these areas. Trainers and scenario developers should consider short- to mid-range ballistic missiles, whether employed by conventional military forces or irregular proxies, electromagnetic and cyber-attack against friendly space assets, and secondhand access to satellite capabilities as potential activities in any notional scenario.

Space Organization and Infrastructure

Research Center (ISRC) and the Iran Space Agency (ISA), both residing in the Iranian President's Minister of Communications and Information Security, and the Minister of Defense and Armed Forces Logistics, which is part of Iran's conventional military (Artesh). Iran's ballistic missile capability resides in the Al Ghadir Missile Force, which is in the Iranian Republic Guard Corps Aerospace Force (IRGCASF).² Additionally, Iran's Supreme Space Council, which is comprised of multiple cabinet-level officials, exercises oversight over space programs. Participating ministries range from those associated with defense and intelligence to roads and mines.

Although space by its nature supports dual use, Iran prioritizes investment in predominantly military space programs over civilian programs.³ Iran's primary spaceport is the Imam Khomeini Space Center near Semnan. It has two launch complexes as well as rocket assembly and engine test facilities.⁴ Iran's Armed Forces Geographical Organization has a facility for imagery and mapping in Tehran, and there is a remote sensing ground station at Mahdasht.⁵ There are also optical and radar telescopes at Mahdasht, which Iran claims provide space situational awareness capability, although the capacity is unclear.⁶ Iran has missile silo bases at Khorramabad and Tabrize, and additional missile facilities in Shahroud, Tabriz, Mashad, Kuhestak, and



Iran's Simorgh launcher with the Payam satellite. Source: Tasnim News Agency, "Simorgh Payam launch 04," Wikimedia Commons, January 15, 2019, <u>https://commons.wikimedia.org/wiki/File:Simorgh_Payam_launch_04.jpg</u>, CC BY-SA 4.0

Kermanshah. Private and public sector companies across the country provide components that can be used for civilian as well as military rocket programs.⁷

Ballistic Missiles

Iran maintains the largest arsenal of short-range ballistic missiles (SRBMs) and mid-range ballistic missiles (MRBMs) in the Middle East and is continually modernizing its force to improve range, accuracy, and lethality.⁸ Iran does not possess nor is prioritizing development of an intercontinental ballistic missile (ICBM) capability.9

Iranian SRBMs include the Fateh-110, Shahab-1, and Shahab-2, all of which are road-mobile. Iran is believed to have less than 100 launchers for each of these types of missiles, although the missile inventory may outnumber launchers.¹⁰

- The **Fateh-100** is an 8.9 m, 3,450 kg solid-fuel rocket capable of delivering a 500 kg payload 300 km. Iran may have multiple variants, including an anti-ship/anti-radiation variant (the Hormuz) and a variant with a 700 km range (the Zolfaghar).¹¹
- The Shahab-1 (AKA Scud B/R-17/SS-1C) is an 11 m, 5,860 kg liquid-fuel rocket capable of delivering a 985 kg warhead up to 330 km. Iran used these extensively in the Iran-Iraq War.¹²
- The **Shahab-2** (AKA Scud C) is an 11 m, 6,095 kg liquid-fuel rocket capable of delivering a 770 kg payload to a range of 500 km. Iran uses Shahab-2's extensively in military exercises. The Qiam-1 is a slightly heavier variant of the Shahab-2 (6,155 kg (6.8 t)), with slightly lighter payload (750 kg) and significantly longer range (800 km). Iran has employed Qiam-1s against ISIS targets in Syria¹³ and against US targets in Iraq.¹⁴

Iranian MRBMs include the Shahab-3 and Sejjil (Ashura), both of which are road-mobile although the Shahab-3 is also silo-launched. Iran's inventory of these missiles is unknown. 15 The Shahab-3 is the Iranian variant of North Korea's No Dong 1. It is a single-stage, liquid-fuel rocket. Its exact specifications are unclear, but it likely is 16.6 m long with a launch mass of 17,410 kg, and capable of delivering a 1,200 kg payload 1,300 km. Iran has had mixed results testing Shahab-3, and has deployed fewer than 50 launchers. 16 Shahab-3 variants include the Ghadr-1 and Emad. Ghadr-1 is a two-stage rocket with a liquid and solid fuel stage. It is reportedly slightly heavier than the Shahab-3 at 19,000 kg, with a longer range (1,950 km) and smaller payload (800 kg). Emad is actually a reentry vehicle atop a Shahab-3, with a slightly smaller payload (750 kg) and slightly shorter range (1700 km) than the Ghadr-1.¹⁷ The Sejjil (AKA Ashura) is an 18 m, 23,600 kg, two-stage solid-fuel rocket with a payload capacity up to 1,500 kg and range of 2,000 km. It has not been tested recently and it is uncertain whether it is operational.¹⁸

Space Launch

In addition to SRBMs and MRBMs, Iran has space launch vehicles (SLVs). Despite international concerns, a SLV is not an ICBM. Iran's SLV technology is inferior to its missile technology, so it is doubtful that Iranian SLVs are intended to be missile launchers, ¹⁹ although associated dual-use technologies could be used to facilitate and accelerate ICBM development. ²⁰

Iran's primary SLV is the Safir-1, a domestically-built, two-stage, liquid-fuel rocket. It is 22 m (72 ft) long with a launch mass of 26-27,000 kg. Safir-1 is capable of placing a 50 kg payload into low Earth orbit (LEO). It is a variant of the Shahab-3 MRBM, developed by modifying the Shahab-3 to include an additional stage. Iran has used the Safir-1 to place four small satellites into LEO, and has had used it for several additional failed attempts. Safir-1's capacity makes it an unlikely candidate for conversion into an ICBM.²¹ The Simorgh, or Safir-2, is Iran's successor to the Safir. Like the Safir-1, it is based on the Shahab MRBM. It is 27 m long with a launch mass of 70-87,000 kg. Simorgh is designed to place 250 kg payloads in LEO, although it has yet to be successful. If Iran succeeds at launching a Simorgh, its technology could potentially be repurposed to support an ICBM program.²²

Anti-Satellite (ASAT) and Counter-Space

Iran has robust satellite jamming capability, and has aggressively interfered with satellite broadcasts to control information access within its borders since 2003. Iran has successfully employed terrestrial jammers from within its territory as well as orbital jammers from its own and from partner nation territory. Media targets have included BBC, VOA, Radio Zamaneh, and Rangarang. Iran not only has acknowledged its capability to jam satellite signals, but promotes proliferation of jamming technology by marketing satellite jammers through state-owned companies. ²⁴

Iran's cyber-attack capability is far behind Russia's and China's, but has been growing since 2010. Iran has had some success targeting international private-sector industries using a variety of cyber tactics ranging from malware to distributed denial of service attack.²⁵ In event of conflict, satellite orbital or ground components could become targets for increasingly-sophisticated Iranian hackers.

As of 2020, there is no evidence Iran has directed energy ASAT capability. Similarly, Iranian launch and satellite operations are too unreliable to be considered co-orbital or direct-ascent ASAT threats. This could eventually change, however, as Iranian space capability improves.²⁶

Satellites

As of February 2020, Iran had no operational satellites in orbit. However, Iran has operated five satellites in low-Earth orbit since 2005. Familiarity with them illustrates Iran's capabilities, determination, and priorities in space. SINA-1 was Iran's first satellite, a 160kg experimental satellite built by a Russian company and launched by Russia but operated by the Iranian

Space Agency. The stated purpose of SINA-1 was communications and research.²⁷ It was launched in October 2005 with a projected lifespan of three years, so is unlikely to be operational as of 2020.²⁸ Iran's second satellite, OMID, was a 27 kg experimental communications satellite. It was Iran's first successful domestic satellite launch. Iran launched it from Khomeini Space Center aboard a Safir-1 rocket. It operated for a few weeks in February 2009.²⁹ Iran's third satellite, RASAD-1, was a 15 kg Earth observation satellite. Iran launched it from Khomeini Space Center aboard a Safir-1 rocket. It reportedly had 200 m resolution. It operated for three weeks in June-July 2011.30 Iran's fourth satellite, NAVID, was a 50 kg Earth observation satellite. Iran launched it from Khomeini Space Center aboard a Safir-1B rocket. It was reported to have 400 m resolution,³¹ intended for weather and natural disaster monitoring. It operated from February to April 2012.32 Iran's fifth satellite, FAJR, was an updated version of OMID. It was purportedly capable of operating for 18 months but deorbited a few weeks after launch in February 2015.33 Iran launched it from Khomeini Space Center aboard a Safir-1B rocket. It may been intended as an ELINT satellite.³⁴ Iran has made multiple satellite launch attempts using Safir and Simorgh rockets since 2015. None have been successful.³⁵ Iran does have satellite ground facilities that could be used to process imagery and signals. Despite the lack of domestic satellite capability, Iran still is capable of purchasing satellite data from commercial and international state partners.

Sanctions and the Future of Iranian Space

Iran has potential to be a major space actor but is unlikely to tap that potential for the foreseeable future because of its strategic environment and approach. Iran is the 17th most populous country in the world, with a population exceeding 80 million. The population is highly urbanized and half of the population is within peak productive years (ages 25-54). The literacy rate is 85%. ³⁶ More than 5% of the population attends university but, unlike larger economies, Iran is incapable of absorbing its graduates into appropriate-levels of the workforce, such as high-technology science and space industry.³⁷ Although Iran's space successes have been limited, infrastructure is in place and Iran continues to invest in space.³⁸ Nevertheless, Iran's progress is tempered by international pressure. Some UN sanctions were lifted in 2015, but others remain in place. The EU has its own restrictions in place on dual-use technology, certain metals, transportation equipment, and financial activity. Like the UN sanctions, these were

eased in 2015, but not lifted.³⁹ Moreover, the US has reinstated many of the sanctions eased in 2015 and has implemented additional sanctions.⁴⁰ Some sanctions specifically targeted the Iranian Space Agency as well as multiple supporting research institutions.⁴¹ Iran's persistent hostile rhetoric and actions cause concern from many western scientists as well as governments,⁴² and international pressure is likely to continue so long as Iran supports regional and global terrorist networks and threatens neighboring and distant countries alike.⁴³ Consequently, Iran's space programs will be scrutinized and hampered for the foreseeable future.

Implications for Training Community

For Army trainers and scenario designers, the principal Iranian space capabilities to consider are short- to mid-range ballistic missiles that could be used to target military forces or threaten regional partners. In fact, ballistic missiles would likely be integral to any Iranian military operation. In addition to Iranian forces themselves, Iranian proxies are in possession of Iranian SRBMs and could employ them in any given scenario. The principal Iranian counter-space capability will be electromagnetic jamming of GPS and communications. As a secondary capability, cyber-attacks could be employed to disrupt or degrade space support to US military formations. Using proxies, the capability to conduct kinetic attack against satellite ground stations should not be discounted, although it is less likely.

Although a ground infrastructure to support imagery exploitation and mapping exists, Iran is unlikely to have significant satellite support to ground operations. What capability exists is likely purchased through international partners and commercial providers. For trainers, this means opposing forces most likely would rely upon airbreathing assets rather than satellite ISR. •

UPDATE:

In April 2020, Iran announced that the IRGC had successfully placed a "strategic intelligence" satellite, designated NUR-1 in low-Earth orbit. IRGC launched the satellite from Shahroud using a Qased rocket and mobile launcher. ⁴⁴ Like other Iranian SLVs, the Qased rocket appears to be based on the Shaheb-3 MRBM. ⁴⁵ The capabilities of this satellite are unclear and may not actually be relevant – the strategic message of the launch is that the IRGC has launch capability. This hints that intercontinental ballistic missile capability is an Iranian goal and highlights that Iran prioritizes military capability over peaceful exploration of space.

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Iranian ATP Preview

By Brad Marvel, OE&TA

Tollowing in the footsteps of ATP 7-100.1, Russian d Tactics, ATP 7-100.2, North Korean Tactics, and ATP 7-100.3, Chinese Tactics, TRADOC G-2's Operational Environment Integration Directorate is pleased to announce the development of ATP 7-100.4, Iranian Tactics. As with the other three threat tactics ATPs, 7-100.4 examines the doctrine and tactical approach used by a specific threat nation – in this case, Iran – and provides end users throughout the Army with an accurate and readable description of threat doctrine. This enables planners, trainers, and leaders to more accurately depict potential Iranian tactics in training and education venues of all types. Also like the other threat tactics ATPs, 7-100.4 is to be fully unclassified. The initial draft of ATP 7-100.4 should be completed in 2020, with final publication in early 2021.

Tactics described in ATP 7-100.4 are taken primarily from Iranian publications. This includes doctrinal manuals, books, essays, monographs, and news/ periodical articles. These primary sources are augmented by products from subject matter experts from across the field, along with open-source government publications. Iranian primary sources are not as readily available as are sources from other ATP topic nations – particularly China – but the Iranian enthusiasm for writing on military theory should provide sufficient data to give a comprehensive overview of the Iranian tactical approach. Very few public sources discuss Iranian tactics, instead focusing heavily on Iranian politics, domestic and foreign policy, and social dynamics. Much of the research that populates the ATP is original, and much of its material has yet to be examined in an open-source document.

The first chapter of ATP 7-100.4 discusses the fundamentals of the Iranian regime: a general overview of Iran's political structure, its political and strategic objectives, and the Iranian operational environment. This chapter is not meant to be an exhaustive study of the enormously complex Iranian political/strategic construct, but rather is intended to give the reader a working understanding of the various factors that shape the Iranian tactical approach. Chapters 2 and 3 discuss ground force and joint force structure respectively, giving unit structure and capability overviews of all relevant Iranian military organizations. This section also includes a discussion of the Iranian chain of command, helping the reader to understand the context through which orders are passed, and the interactions between national, regional, and local commanders.

The deep dive into the Iranian tactical approach begins in Chapter 4, with a description of the **Mosaic Defense**. This is the overarching Iranian operational concept, comparable to American Air-Land Battle or Full Spectrum Operations of past generations. The Mosaic Defense is informed by several key assumptions:

- Iran's most probable opponent is the United States, or allies of the United States backed by American military power.
- The most probable military scenario is one in which the United States and/or its allies commence an aggressive, offensive action into Iranian territory, with the objective of deposing the current ruling regime.
- American firepower especially airpower is overwhelming.
- The United States is strongly averse to significant casualties, and is more susceptible to losing a war on the home political front than on the actual battlefield.
- Iran's armed forces will continue to struggle to find adequate resources, particularly with regard to new equipment and training.
- Iran's military and population are staunchly loyal to the Iranian regime, and will enthusiastically fight any invader, even if facing a huge disparity in training or equipment quality.
- Iran's terrain is well-suited to a defensive campaign.



The Karrar main battle tank – probably heavily based on the T-72/T-90, is one of Iran's first major indigenous weapons programs Source: Tasnim News Agency / CC BY (https://creativecommons.org/licenses/by/4.0), https://commons.wikimedia.org.wiki/File:Karrar (Iranian tank) 01.jpg.

Based on these assumptions, Iranian leaders developed their doctrine around four primary principles:

- Employ terrain advantages and strategic depth to maximize the toughness of Iranian formations that might otherwise be badly outmatched.
- Wherever possible, conceal, harden, and disperse Iranian forces in order to offset enemy advantages in firepower.
- Plan for units to be isolated from both higher echelons and other units.
- Leverage Iran's willingness to absorb casualties
 while exploiting the enemy's extreme discomfort
 with casualties in order to bring about an end to
 the conflict through political discord in the enemy's
 homeland.

The Mosaic Defense is the output of this set of assumptions and guiding principles. The command and control structure for both the Artesh – Iran's conventional military – and the Iranian Republican Guard Corps (IRGC) have been highly decentralized and built around local defense. Tactical control at higher echelons takes a lower precedence than strong unit cohesion and independence at lower levels,

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reflective of the assumption that Iranian forces may face overwhelming enemy firepower disrupting their command and control network. Iranian units focus training on defensive operations and entrenchments, particularly passive methods such as concealment and camouflage, and make extensive use of underground facilities and other hardened assets to better resist powerful, modernized forces who prefer to fight in open terrain. The IRGC and the Basij militia in particular are to commence a popular resistance, employing hybrid tactics to harass and disrupt enemy rear areas and inflict casualties. Elsewhere, air defense systems are expected to attrite extremely expensive and high-value aircraft in the air battle over Iran, and a variety of missile systems, small surface vessels, and submarines attempt to degrade enemy naval forces or interdict valuable shipping in and around the Persian Gulf.

The remaining chapters of the ATP discuss reconnaissance and security, offensive and defensive tactics, cyber and information warfare tactics, foreign involvement and terrorism, and internal security in enhanced detail. Most content will detail how each of these tactical tasks support the Mosaic Defense concept, giving the reader a holistic understanding the Iranian tactical approach. •



Basij militia members attend the annual Basij conference. Note the huge variety in clothing/uniforms, fitness, age, and probable readiness of the various members of the militia.

Source: Unknown author / CC BY (https://creativecommons.org/licenses/by/4.0), https://commons.wikimedia.org/wiki/File:Great Conference of Basij members at Azadi stadium

Past is Present: Continuity in Iranian Foreign Policy and Why it Matters

By Joseph E. Fallon, UK Defence Forum

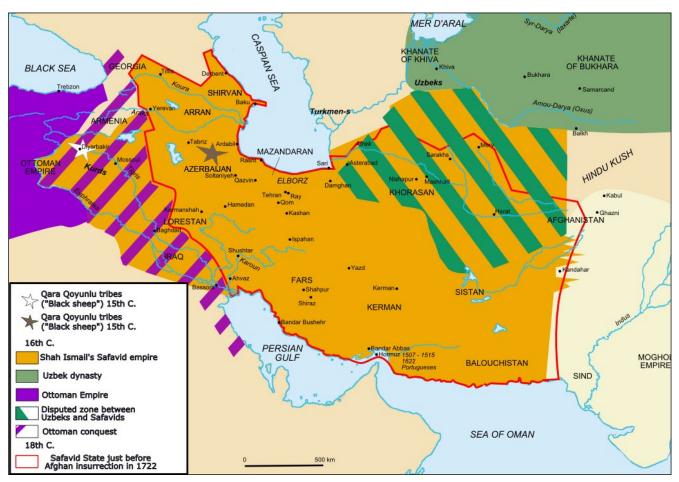
Past is Prese Foreign Policy Process Foreign Policy Process By Joseph E. Fall The foreign policy pursued by the government of the Islamic Republic of Iran in the Middle East, Central Asia, and South Asia is rational and consistent. In fact, "many of Iran's foreign policy actions are similar to those undertaken by the Shah of Iran and prior Iranian dynasties," with the exception Tehran is now an adversary of the US, instead of an ally.

Iran is a phoenix nation. Erased from the map by the Arab Muslim invasion of the 7th century AD, Iran was resurrected 1000 years later as an independent Persian state by Shah Ismail in 1501. To insure the permanency of an independent Persian identity, Shah Ismail, through proselytization and violence,² converted the population to Shi'a Islam; thereby culturally separating Iranians from Sunni Arabs and Turks and from any allegiance to the Caliph of the Ottoman Empire^{3,4} or any other outside power. (Map 1)

Since then, the foreign policy of every Iranian government, regardless of dynasty or ideology, has been defined by this history. The purpose of an Iranian government is to preserve the existing political establishment whose legitimacy depends on maintaining the independence and territorial integrity of the state. For the state is the defender of *Iranshahr*, the heartland of Persian-speakers. Since the 19th century, this is the territory enclosed within the borders of modern Iran.

The Safavids created modern Iran. The dynasty flourished for two centuries. But when it failed to preserve Iran's political borders, it was replaced by the Afsharids. Then came the Zands, Qajars, Pahlavis, and Ayatollahs. Regimes come and go. But Iran remains - independent and intact.

Historically, to protect *Iranshahr* Tehran must establish buffer zones to its west, Iraq, and east, Afghanistan



Map 1. Safavid Empire aka Persia.
Source: Fabienkhan / CC BY-SA 2.5 https://commons.wikimedia.org/wiki/File:Map_Safavid_persia.png

and Pakistan, ensuring those countries are allies or neutrals. Because when those lands are neither, they have been used as staging grounds for invasions of Iran by Ottomans, Uzbeks, Afghans, Russians, British, and Saddam Hussein. Twice, 1907 and 1941, Iran was nearly partitioned out of existence by the Russians and the British. (Maps 2 and 3)

This history has defined the foreign policy of Iran's political class - secular and sectarian, past and present. It is a mistake, therefore, to suggest that by pursuing

this objective the Ayatollahs of Iran are seeking to reestablish the Persian Empire.

Such an analysis misunderstands the nature of both. The Persian Empire was a reversed image of the Islamic Republic. Any attempt by Tehran to emulate the Persian Empire would pose an existential threat to the Islamic Republic.

First, the Persian Empire was a non-Islamic state based on a more ancient monotheistic faith, Zoroastrianism.⁵

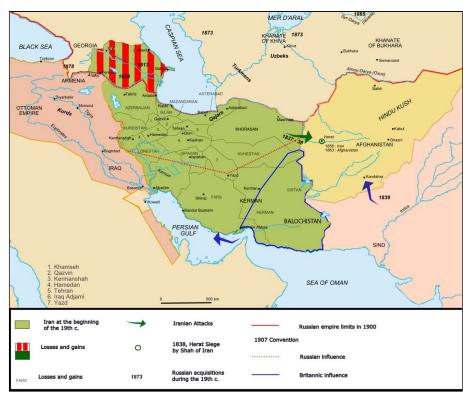
Second, the Persian Empire permitted all religions to be freely practiced in the realm.⁶

Third, the Persian Empire freed the Jews from Babylonian captivity, encouraged their return to the land of Israel, and then granted Israel a high degree of political autonomy within the empire.⁷

And fourth, the Persian Empire was the role model for the Shah of Iran, nemesis of the Ayatollahs. At a lavish coronation in 1967, he took the title of ancient Persian Emperors, *Shāhanshāh*;⁸ in 1971 he sponsored an extravagant celebration on the 2,500th anniversary of the Persian Empire at Persepolis, ancient capital of the empire,⁹ and in 1976 he replaced the Islamic Calendar with the Persian calendar of Cyrus the Great.¹⁰

The Ayatollahs are not attempting to resurrect the Persian Empire. After the failure to export the Iranian Revolution to Sunni states in 1979, and in the aftermath of the Iran-Iraq War (1980-1988), Tehran's focus is regime survival, which means insuring Iran's territorial integrity. To do this, Iran seeks to create an Islamic alliance, dominated by Tehran, stretching from the Mediterranean Sea to Central Asia. Such an alliance would be more durable than the Persian Empire, because it rests not on an "imperial" army and sovereign, but on bonds of a common religion, language and culture.

To its west, "Tehran is forming a 'land bridge' that connects Iran through Iraq to Syria, Lebanon, to the Israeli border at Golan. This is what's called the Shi'a Crescent."¹¹ It is facilitated by Iraqis,



Map 2. Partition 1907.
Source: Fabienkhan / CC-BY-SA 2.5 https://commons.wikipedia.org/wiki/File:Map_lran_1900-en.png

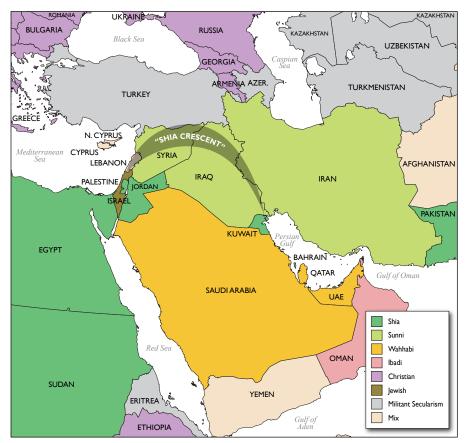


Map 3. Partition 1941.

Source: "World War II: Anglo-Soviet Invasion of Iran", Iran Review August 24, 2016

http://www.iranreview.org/content/Documents/World-War-II-Anglo-Soviet-Invasion-of-Iran.htm

Lebanese, and a significant number of Syrians, ¹² sharing the same faith as Iranians - Shi'a Islam. (Map 4)



Map 4. Shi'a Crescent
Source: Adapted from M. Izady, "Emerging Shia 'Crescent' of Power in the Core of the Middle East", Gulf/2000 Project, SIPA Columbia University,
New York City, 2008-2009, http://gulf/2000.columbia.edu/images/maps/Shia Crescent sm.jpg

To its east, Tehran is promoting cultural ties among Afghans, Tajiks, and Iranians based on their shared Persian language and Persian heritage. 13,14,15 (Map 5)

Iran's foreign policy also has an offensive component directed at its political and religious rival, Saudi Arabia, on three fronts.

First is Bahrain, a strategic¹⁶ and economic prize,¹⁷ located sixteen miles off the Persian Gulf coast of Saudi Arabia. Iran defends the democratic rights of Shi'a, a disenfranchised majority (62%),¹⁸ against Sunni rulers backed by Saudi Arabia.

Second is Yemen on Saudi Arabia's southwest border. Tehran is using the civil war in Yemen as a proxy war with Riyadh. With Iran arming Shi'a rebels (Houthis), ¹⁹ Saudi Arabia responded by militarily intervening to prevent the fall of the pro-Saudi government. But Riyadh failed to defeat the insurgents. The war is draining Saudi financial resources and alienating traditional allies, such as the US, Egypt and Pakistan.²⁰

Third is Saudi Arabia's Eastern Province. Riyadh's wealth is principally derived from oil wells and reserves

located there.²¹ The Eastern Province borders the Persian Gulf; is approximately 200 miles from Iran;²²

and is inhabited by Shi'a (who are 10-15% of the Saudi population).²³ Historically persecuted by Riyadh,²⁴ Shi'a rebelled in 1979. Shi'a unrest erupted again in 2011, 2012, and has been ongoing since 2017.²⁵

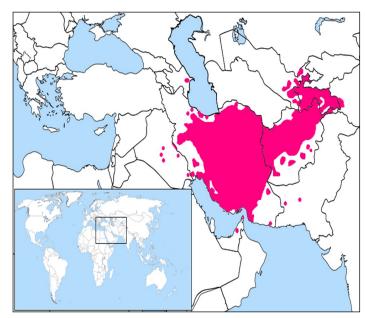
Why It Matters

Knowledge of the objective of Iran's foreign policy is necessary, if Washington is to make Tehran stop supporting terrorist groups and stop pursuing its nuclear program. Such knowledge of Iranian history provides an understanding of the impact and limitation of US actions, including military operations, on influencing Tehran's behavior.

Iranian nationalism created Iran and drives its foreign policy, which has successfully preserved the country's independence for 500 years. Contributing to this success is the landscape of Iran, which favors defense over offense. "Iran is a fortress. Surrounded on three sides by mountains and on the fourth by the ocean, with a wasteland at its center, Iran is extremely

difficult to conquer."26

A US military attack on Iran to disarm or overthrow the regime would require boots on the ground. The



Map 5. Areas with Persian-speakers as mother tongue Source: Wikipedia, 9 October 2007, https://commons.wikimedia.org/w/index.php?curid=306430

success of such a US invasion and occupation of Iran is dubious. Washington would encounter a series of logistic and intelligence obstacles.

- 1. Iran is four times larger than Iraq.²⁷
- Iran's population is three times greater than Iraq's.²⁸
- Iran is three times larger than Afghanistan.²⁹
- Iran's population is two and half times greater than Afghanistan's.30
- 5. Iran's military strength is ranked 14 out of 138
- The US military would likely confront an unfriendly Persian-speaking majority population. Unlike Iraq, where the Arab majority is divided between hostile Sunni and Shi'a, which impedes their political collaboration, in Iran, a religious solidarity—the Persian speaking majority is Shi'a—would promote a political solidarity. This would likely make resistance to US forces, using the terrain as a force multiplier, more effective.
- 7. If US military operations included attacks on Iran's religious and/or cultural monuments, it would

- further inflame Iranian nationalism. Washington would likely lose the support of potential allies among Persian speaking opponents of the Ayatollahs.
- 8. If Washington seeks to weaken Persian Iran by politically fragmenting Iran along ethnic lines, Arab, Azeri, Baluch, and Kurd, it would also be unintentionally encouraging Baluch and Kurd secession in the adjacent states, which are US allies - Iraq, Pakistan, and Turkey.

Washington's best option is to tighten economic sanctions on Iran, with the explicit offer to remove all sanctions on the successful conclusion of negotiations based on Tehran's 2003 proposed "grand bargain". This Iranian document "...put everything on the table: Iran's support for terrorism, its nuclear program, even its hostility towards Israel. In exchange, Iran asked Washington for security guarantees, an end to sanctions and a promise never to push for regime change."32

US opposition is to Tehran's policy of supporting terrorists and pursuing a nuclear program. It is not with the Iranian government, per se, or the Iranian people, their religion, their history, their culture, or their country.

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About the Author:

Joseph E. Fallon is a global political analyst with over 20 years' experience in strategic advisory, research/writing and teaching with specific subject-matter expertise in national defense/security, terrorism and geopolitics. Mr. Fallon is currently a Research Associate for the British think tank, UK Defence Forum, providing Members of Parliament with analyses of issues effecting British national security and defense; a Steering Committee member for the Working Group on Children Recruited by Terrorist and Violent Extremist Groups; and an international member of the board of the Romanian academic journal, GeoPolitica. He is the author of two books and a proposed page 20 published articles (or a large contracting the proposed page 20 published articles (or a large contracting the proposed page 20 published articles (or a large contracting the proposed page 20 published articles (or a large contracting the page 20 published articles (and over 80 published articles (e.g. Islamic extremism, US foreign policy). Mr. Fallon was formerly a Professor at the Middle East Regional Studies Program, US Army War College; an instructor on Afghanistan and Islamic Extremism at US Army Intelligence Center of Excellence; a Guest Lecturer on Afghanistan for the US Army Cultural Knowledge Conceptions and a Cuest Lecturer on Afghanistan for the US Army Cultural Knowledge Consortium; and a Guest Lecturer on Central Asia and Iran at the Defense Institute of Security Assistance Management (DISAM).

Iran in Iraq

By Michael Rubin, Ph.D., American Enterprise Institute

he 3 January 2020 MQ-9 Reaper strike which killed Iranian Quds Force chief Qassem Soleimani and Abu Mahdi al-Muhandis, the deputy chief of the Popular Mobilization Units, highlighted malign Iranian influence in Iraq.

Iran-Iraq relations are complex. Both Iran and Iraq are majority Shi'ite, but ethnic and national rivalries sow deep divisions. During the 1980-88 Iran-Iraq War, the majority of Iraqi soldiers were Shi'ite but remained loyal to Iraq; Arab ethnicity and national pride trumped sectarian solidarity. Most Iraqi Shi'ites also disagree with the theological notion of clerical rule (velayat-e faqih) that the late revolutionary leader Ayatollah Ruhollah Khomeini imposed in Iran. Iranian attempts to impose this theological interpretation on Iraqis have only heightened Iraqi resentment toward Iran. Iraqis often direct frustration at Iraq's economic unease upon Iran. Iraqis blame Iranian dumping of cheap manufactured goods for undercutting Iraq's fragile manufacturing and agricultural sectors. When agricultural run-off caused a massive fish-kill in the Tigris River, Iraqis embraced the conspiracy theory that Iranian agents poisoned the water in order to force Iraqis to purchase Iranian fish.¹

Iran partisans in Iraq often cloak their militias' existence in the mantle of Grand Ayatollah Ali Sistani's fatwa (religious declaration) that led to the creation of the hashd al-shaabi, the so-called Popular Mobilization Forces which came into existence to fight the Islamic State. In reality, most of the Iranian-backed and directed groups were founded years prior to the Islamic State crisis. The Islamic Revolutionary Guard Corps founded the Badr Corps in 1982. Kata'ib Hezbollah has been active since October 2003. Asa'ib Ahl al-Haq was founded in July 2006, and Harakat Hezbollah al-Nujaba was formed in 2013. These groups freely acknowledge both loyalty to Iran's Supreme Leader Ali Khamenei and receipt of Iranian assistance. Declassified interrogation records of Qais Khazali, in coalition custody between 2007 and 2010, and today the secretary-general of Asa'ib Ahl al-Haq, detail Islamic Revolutionary Guard Corps training his group at bases near Tehran.² Such training fits a common pattern in which the Revolutionary Guards trains and supports proxy groups.

The *hashd al-shaabi* as a whole are more diverse and are not all under Iran's thumb. Not only Shi'ites but also Sunni, Christians, and Yezidis formed *hashd*

al-shaabi groups. Iraqis also differentiate between groups staffed by those coming from across the country versus those who have more local origins. During the fight against the Islamic State, for example, many Shi'ites from Iraq's southern governorates joined units in the north, not only creating a security vacuum in southern cities and towns but also creating friction with local communities in the north. Wasta (nepotism) in Iraqi society is not only about getting a job, but also about de-confliction. If Iraqis ran into trouble at a hashd al-shaabi checkpoint, for example, or had a member of their family detained, they were much more likely able to resolve the problem without violence or lasting grievance if they could utilize local connections. This was largely impossible when hashd al-shaabi personnel from outside their immediate area dominated security. Likewise, local security forces are less likely to loot property in areas where they and their extended families might be known.

Anti-Iranian fervor inside Iraq reached a peak after Iranian-backed militias fired on crowds during anticorruption protests that erupted on October 1, 2019. Senior Iraqi officials in both the executive and legislative branches privately say the violence caught then-Prime Minister Adil Abdul-Mahdi by surprise, and Abdul-Mahdi's mistake was trying to excuse and cover up the Iranian-backed militia role rather than address it directly. Every Iraqi prime minister since 2014 has privately acknowledged the threat Iranian-backed militias pose to the Iraqi state. Iraqi leaders see the role the Islamic Revolutionary Guard Corps and Basii play in Iran and understand the ramifications of allowing the Iranian-backed militias to fester. Why has the Iraqi government not cracked down harder on hashd al-shaabi abuses?

There are three reasons. First is power. Both Badr Corps leader Hadi Amiri and former Prime Minister Nouri al-Maliki utilize their connections and support for the *hashd al-shaabi* in order to bolster their influence in Iraq's rough-and-tumble political battles. Their *hashd al-shaabi* connections also compensate for a lack of support from Sistani and the broader religious establishment in Najaf.

Second is pragmatism. After Iraqi Kurds held a referendum on eventual independence not only for recognized portions of Iraqi Kurdistan, but also for the oil-rich territories claimed by both Iraqi Kurdistan and the Iraqi government in Baghdad, Iraqi forces and Iranian-backed *hashd al-shaabi* counterparts drove north into disputed areas. When faced with complaints about the Iranian role in the campaign, officials in then-Prime Minister Haider Abadi's office said that they utilized Iranian-backed groups because they were more disciplined and would not engage in spontaneous looting the way more *ad hoc* militias formed in the wake of the Islamic State's rise would.

The third reason is fear. The individual costs of opposing Iran-oriented militias are huge. The same Iraqi politicians who downplay Iranian influence in Iraq refuse to reverse illegal Iranian installation of donation boxes for charities like the Imam Khomeini Relief Committee so as not to precipitate a fight or antagonize the Iranian government. It is not uncommon for the Iranian government to use such charities to project influence. The Imam Khomeini Relief Committee, for example, highlights its charitable work such as the distribution of food, kerosene, and blankets but it also conducts more covert activities. The same networks used to distribute humanitarian supplies can distribute weaponry. A decade ago, for example, the US Treasury Department designated its Lebanese branch a supporter of terrorism "for being owned or controlled by Hizballah and for providing financial and material support to Hizballah."3

Rather than seek to consolidate control over the *hashd al-shaabi*, Iraq's senior leadership regularly passes the buck. When Najah al-Shammari, for example, assumed the ministry of defense portfolio in June 2019, he said he had no interest in reining in the *hashd al-shaabi* even though technically it was a military force subordinated to his ministry, as that was constitutionally the duty of the chief-of-staff, and that position was vacant at the time. Shammari may have been right, but Iraqi leaders have long treated the constitution more as a suggestion than as inflexible law, and there was enough flexibility within the law to assert more unity of command had Shammari wished to pursue that goal.

While US military forces and civilian officials operating in Iraq are accustomed to the delicate balancing act with Iraqis over Iranian influence, there have been significant changes in recent months. Iran has plunged into recession and US sanctions have hit the Islamic Revolutionary Guard Corps and its associated businesses hard. Iraqi officials say that whereas the Quds Force—the special forces and external operations wing of the Revolutionary Guards—once subsidized

Iraqi militias inside Iran, the flow of money is now reversed: Groups like Kataib Hezbollah and Asa'ib Ahl al-Haq now siphon money from their business interest in Iraq back into Iran. This creates a financial disincentive for both the Iraqi groups and Iran to allow political reforms that might loosen their grip to take hold, and may also explain their willingness to use lethal force against unarmed protesters.

While Prime Minister Mohammad Allawi seeks to guide Iraq to early elections and deliver the change the protest movement demands, other events may disrupt the relationship between Iraq and Iran. On 16 January 2020, Sistani underwent surgery for a fractured left thigh. While the 89-year-old cleric survived the surgery, the chance for complications remain high given his age. This raises the specter that he could pass away. Not only would Iraq lose a moderating figure that has long resisted Iranian diktats, but Iranian Supreme Leader Ali Khamenei and his clerical establishment will try to put forward a candidate for marja' more sympathetic to the Iranian regime's views; indeed, they tried already to do this with the Najaf-educated Mahmoud Hashemi Shahroudi, the former head of the Iranian judiciary, but the 70-year-old cleric succumbed to brain cancer in December 2018. Iranian efforts to promote a less independent successor to Sistani will not simply be an intellectual battle over religious discourse, but could also take a more violent dimension. It is for this reason as well the Islamic Republic is loath to cease its support for militia groups in Iran. Just as these groups inflicted unrestrained violence against peaceful protesters in Baghdad in recent months, they might easily be called upon to intimidate others seeking recognition as marja' in Naiaf.

Iran-Iraq relations are complex but, simply put, Iranian authorities will never abandon their quest to dominate Iraq. Not only is their joint frontier the longest either country shares with a neighbor, but they remain economically intertwined because of Shi'ite pilgrimage and religious tourism. While many diplomats express hope for the reform movement in Iraq to triumph and while Iranian hardliners waste no effort to thwart their desires, the real Achilles' heel for the Iranian regime remains a free and independent Iraq. The Iranian supreme leader's claim to be the ultimate political and religious authority means that any independent cleric in the Iraqi shrine cities of Najaf and Karbala contradicting the Iranian supreme leader are directly undercutting his authority. This makes Iranian domination of Najaf and Karbala important to Iranian regime survival. Their aggressive effort both to keep Baghdad weak and fractured and to make inroads into Najaf and Karbala is not a behavior which they will

willingly mitigate. Soleimani's death may have changed the face of the struggle, but will not end it.

What does this mean for the United States? Iranian attempts to dominate Iraq will not dissipate, but Iraq's operational environment is not always as conducive for the Iranians as American analysts assume. The Iraqi strategy remains consistent. Iraqi officials in both the executive and legislative branches across Iraqi administrations say privately that the only way to counter Iranian influence effectively is to have an American presence remain so that Iraqi authorities can use the presence of the other to veto either Tehran or Washington's demands and carve out independent space for Iraqi action. When US forces temporarily withdrew in 2011, Iranian influence increased and American influence declined.

If the United States again withdrew its forces from Iraq, Iranian-backed militias if not the Islamic Revolutionary Guard Corps itself could grow more aggressive. Attacks on Saudi Arabia suggest that Iranian-backed militias already have missiles and unmanned aerial vehicles. If Iranians and Iranian-backed groups consolidate power in Iraq in the absence of US support for the Iraqi state, it is likely that they could act more openly because they would fear less efforts to prevent such regional aggression. Iranian consolidation of control over Iraqi territory would also enable the so-called land bridge which could provide arms more easily to Iranian proxy groups in Syria and Lebanon. A more sectarian, Iranian-dominated regime in Baghdad could also fan the flames of sectarianism and inflame the same forces that contributed to the rise of Islamic State. US policy, of course, could go in a number of directions in Iraq but whether with the presence of US troops or without it, Iranian designs on Iraq and Tehran's success or lack thereof will define the strategic environment in the region for years to come. •

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Operational Environment Data Integration Network

ODIN is the authoritative source for DATEs, their accompanying Threat Force Structures, the Worldwide Equipment Guide (WEG), and other threat doctrine publications such as the TC 7-100 series.









https://odin.tradoc.army.mil/

 [&]quot;Fish deaths caused by water crisis, point to major crises facing Iraq," The Baghdad Post, 9 November 2018.

^{2. &}quot;Shi'a SDE Tactical Interrogation Report," Report No. 200243-008. 18 June 2007, 17:30.

 [&]quot;Fact Sheet: U.S. Treasury Department Targets Iran's Support for Terrorism Treasury Announces New Sanctions Against Iran's Islamic Revolutionary Guard Corps-Qods Force Leadership," U.S. Treasury Department, 3 August 2010.

^{4.} Author interview with Najah al-Shammari, Baghdad, 1 June 2019.

Equipment Added/Updated Tracker

| | Equipment Added/Opdated Tracker | | | |
|--------|--|-----------|------------|---------------|
| | December 2019 - February 2020 | | | |
| Number | Equipment Name | Country | Added | Updated |
| 1 | M4 Carbine American 5.56mm Assault Rifle | America | √ | |
| 2 | M113A1 American Amphibious Armored Personnel Carrier (APC) | America | | ✓ |
| 3 | M113 American Amphibious Armored Personnel Carrier (APC) | America | | ✓ |
| 4 | YPR-765 (AIFV) American Infantry Fighting Vehicle (IFV) | America | | ✓ |
| 5 | AIM-9 Sidewinder American Short-Range Air-to-Air Missile | America | √ | |
| 6 | AGM-65 Maverick American Air-to-Surface Missile | America | ✓ | |
| 7 | F-4 Phantom II American Fighter-Bomber Aircraft | America | | ✓ |
| 8 | Zuni American 5-inch Folding-Fin Aircraft Rocket (FFAR) | America | √ | |
| 9 | M134 Minigun American 7.62mm Six-Barrel Rotary Machine Gun | America | √ | |
| 10 | AGM-84 (Harpoon) American Anti-Ship Missile | America | √ | |
| 11 | Titan American Unmanned Ground Vehicle (UGV) | America | √ | |
| 12 | Ripsaw American Unmanned Light Tank | America | √ | |
| 13 | Kel-Tec KSG American 12-Gauge Pump-Action Shotgun | America | √ | |
| 14 | FIM-92 Stinger American Man-Portable Air-Defense System (MANPADS) | America | | √ |
| 15 | M16 American Bounding Anti-Personnel Mine | America | | ✓ |
| 16 | Beretta 92FS American Semi-Automatic Pistol | America | ✓ | |
| 17 | SIG Sauer M17 American 9mm Semi-Automatic Pistol | America | √ | |
| 18 | MIM-23A Hawk American Surface-to-Air Missile (SAM) System | America | | √ |
| 19 | F470 Zodiac American Combat Rubber Raiding Craft (CRRC) | America | √ | |
| 20 | MIM-23B I-Hawk American Surface-to-Air Missile (SAM) System | America | | $\overline{}$ |
| 21 | M15 American Anti-Tank Blast Mine | America | | <i></i> |
| 22 | M7A2 American Anti-Vehicle Mine | America | | <i>-</i> |
| 23 | M14 (Toepopper) American Anti-Personnel Mine | America | | |
| 24 | Barrett M82 (M107) American Semi-Automatic Anti-Material Rifle | America | | <i>'</i> |
| 25 | Barrett M82 (M107) American Semi-Automatic Anti-Material Rifle | America | √ | |
| 26 | M2 Browning American .50 Caliber Heavy Machine Gun | America | | √ |
| 27 | SIG Sauer M18 American 9mm Semi-Automatic Pistol | America | √ | • |
| 28 | M67 American Fragmentation Grenade | America | √ | |
| 29 | Mk 2 American Time-Fused Grenade | America | V ✓ | |
| 30 | MK3 American Concussion Grenade | America | V ✓ | |
| 31 | Atchisson (AA-12) American Auto-Assault Shotgun | America | V ✓ | |
| 32 | Mossberg 500 American 12-Gauge Pump-Action Shotgun | America | V / | |
| 33 | M202 FLASH American 66mm Rocket Launcher Flamethrowers | America | V ✓ | |
| 34 | Cadillac Gage Commando American 4x4 Light Armored Vehicle | America | ∨ | |
| 35 | Cougar H American 4x4 Mine-Resistant Ambush Protected (MRAP) Vehicle | America | V / | |
| 36 | Cougar HE American 4x4 Mine-Resistant Ambush Protected (MRAP) Vehicle | America | ∨ | |
| 37 | M16A1 American 5.56mm Assault Rifle M16A1 American 5.56mm Assault Ri | America | ∨ | |
| 38 | | America | ∨ ✓ | |
| 39 | M16A2 American 5.56mm Assault Rifle M16A4 American 5.56mm Assault Rifle | | V √ | |
| | | America | V | / |
| 40 | M110A2 American 203mm Self Propelled Howitzer | America | | √ |
| 41 | M115 American 203mm Towed Howitzer | America | | √ |
| 42 | M110A1 American 203mm Self-Propelled Howitzer (SPH) | America | | V |
| 43 | M19 American Anti-Tank Blast Mine | America | | √ |
| 44 | M18A1 Claymore American Anti-Personnel Mine | America | | |
| 45 | Tomahawk American Land Attack Cruise Missile | America | ✓ | |
| 46 | M4 Carbine American 5.56mm Assault Rifle | America | | ✓ |
| 47 | M48 Patton American Main Battle Tank (MBT) | America | √ | |
| 48 | M60D American 7.62mm General-Purpose Machine Gun | America | √ | |
| 49 | M60 American 7.62mm General-Purpose Machine Gun | America | √ | |
| 50 | M73 Machine Gun American 7.62mm Medium Machine Gun | America | √ | |
| 51 | M240 American 7.62mm General-Purpose Machine Gun | America | √ | |
| 52 | M48A5 American Main Battle Tank (MBT) | America | √ | |
| 53 | M60 American Main Battle Tank (MBT) | America | √ | |
| 54 | M85 American 12.7mm Heavy Machine Gun | America | √ | |
| 55 | M60A1 American Main Battle Tank (MBT) | America | √ | |
| 56 | AN/TWQ-1 Avenger American 4x4 Mobile Air Defense Missile System | America | √ | |
| 57 | M47 Patton American Main Battle Tank (MBT) | America | √ | |
| 58 | M1919 Browning American 7.62mm Medium Machine Gun | America | √ | |
| 59 | MK 19 American 40mm Grenade Launcher | America | √ | |
| 60 | Santa Cruz Class (TR-1700 Class) Argentinian Diesel-Electric Patrol Submarine | Argentina | ✓ | |
| 61 | Almirante Brown Class Argentinian Guided Missile Destroyer | Argentina | ✓ | |
| 62 | F1 Australian Time-Fused Grenade | Australia | ✓ | |
| 63 | Collins Class Australian Diesel-Electric Submarine | Australia | ✓ | |

Equipment Added/Updated Tracker (continued)

| Rember Repriment Name | | Equipment Added/Opdated Tracker (continued) | | | |
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| Holtart Class Australian Destroyer | | December 2019 - February 2020 | | | |
| Australian Anzec Class Australian Fritarian Australian Australian Australian Australian Australian Australian Australian Glock Taustrian 9mm Berni Automatic Pistol Austrian Austrian Austrian Signature Austrian Austria | | <u> </u> | | Added | Updated |
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| PRB MSPRE MA1 Belgian Anti-Tank Blast Mine | | | | | |
| PRE MAS Belgium Arth-Personnel Mine Belgium | | | | √ | |
| Title | | | | | ✓ |
| Chelefan MK3 British Man Battle Tenk (MBT) | | | | | ✓ |
| A | | | | | |
| FEYS Canadian Short-Range Portable Anti-Tank Guided Missile (ATOM) Canada | | | | ✓ | |
| 76 | | | | | ✓ |
| 76 ZZH-09 (Type 09) Chinese &d Amphibious Armor Personnel Carrier (APC) Chine 77 WZ-623 (Type 09F) Chinese &d Amphibious Armor Personnel Carrier (APC) Chine 78 CSK-131 (Dongfeng CSK131) Chinese 4x4 Light Tactical Vehicle 79 Type 63 (YW531) Chinese Amphibious Infantry Fighting Vehicle 79 CSK-141 (Dongfeng CSK141) Chinese 4x4 Light Tactical Vehicle 79 CSK-141 (Dongfeng CSK141) Chinese 4x4 Light Vehicle 79 CSK-141 (Dongfeng CSK141) Chinese 4x4 Light Vehicle 70 CSK-141 (Dongfeng CSK141) Chine | | | | | ✓ |
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| 117 QLZ-04 Chinese 37mm Automatic Grenade Launcher 118 W85 Chinese 12.7mm Heavy Machine Gun 119 Type 67 Chinese 7.62mm General-Purpose Machine Gun 120 ZBD-08 (WZ502G) Chinese Infantry Fighting Vehicle (IFV) 121 Type 57 Chinese 7.62mm Medium Machine Gun 122 HQ-17A Chinese Short-Range Air Defense Missile System 123 Shandong (17) Chinese Type 001A Aircraft Carrier 124 Type 071 Class (Yuzhao) Chinese Amphibious Transport Dock 125 Type 072A Class (Yuting II) Chinese Landing Ship China ✓ | | | | | |
| 118 | | | | <u> </u> | |
| 119 Type 67 Chinese 7.62mm General-Purpose Machine Gun China ✓ 120 ZBD-08 (WZ502G) Chinese Infantry Fighting Vehicle (IFV) China ✓ 121 Type 57 Chinese 7.62mm Medium Machine Gun China ✓ 122 HQ-17A Chinese Short-Range Air Defense Missile System China ✓ 123 Shandong (17) Chinese Type 001A Aircraft Carrier China ✓ 124 Type 071 Class (Yuzhao) Chinese Amphibious Transport Dock China ✓ 125 Type 072A Class (Yuting II) Chinese Landing Ship China ✓ | | | | | |
| 120 ZBD-08 (WZ502G) Chinese Infantry Fighting Vehicle (IFV) China 121 Type 57 Chinese 7.62mm Medium Machine Gun China 122 HQ-17A Chinese Short-Range Air Defense Missile System China 123 Shandong (17) Chinese Type 001A Aircraft Carrier China 124 Type 071 Class (Yuzhao) Chinese Amphibious Transport Dock China 125 Type 072A Class (Yuting II) Chinese Landing Ship China | | | | | |
| 121 Type 57 Chinese 7.62mm Medium Machine Gun China 122 HQ-17A Chinese Short-Range Air Defense Missile System China 123 Shandong (17) Chinese Type 001A Aircraft Carrier China 124 Type 071 Class (Yuzhao) Chinese Amphibious Transport Dock China 125 Type 072A Class (Yuting II) Chinese Landing Ship China | | | | <u> </u> | |
| 122 HQ-17A Chinese Short-Range Air Defense Missile System China 123 Shandong (17) Chinese Type 001A Aircraft Carrier China 124 Type 071 Class (Yuzhao) Chinese Amphibious Transport Dock China 125 Type 072A Class (Yuting II) Chinese Landing Ship China | | | | | |
| 123 Shandong (17) Chinese Type 001A Aircraft Carrier China ✓ 124 Type 071 Class (Yuzhao) Chinese Amphibious Transport Dock China ✓ 125 Type 072A Class (Yuting II) Chinese Landing Ship China ✓ | | | | ✓ | |
| 124 Type 071 Class (Yuzhao) Chinese Amphibious Transport Dock China 125 Type 072A Class (Yuting II) Chinese Landing Ship China ✓ | | | | ✓ | |
| 125 Type 072A Class (Yuting II) Chinese Landing Ship China ✓ | | | | \checkmark | |
| | | Type 071 Class (Yuzhao) Chinese Amphibious Transport Dock | | $\sqrt{}$ | |
| | | Type 072A Class (Yuting II) Chinese Landing Ship | | | |
| | 126 | | China | $\overline{}$ | |

Equipment Added/Updated Tracker (continued)

| | Equipment Added/Opdated Tracker (continued) | | | |
|------------|---|----------------|---------------------|--------------|
| | December 2019 - February 2020 | | | |
| Number | Equipment Name | Country | Added | Updated |
| 127 | Type 094 Class (Jin Class) Chinese Nuclear-Powered Ballistic Missile Submarine (SSBN) | China | √ | |
| 128 | JL-2 (CSS-N-14) Chinese Intercontinental-Range Submarine-Launched Ballistic Missile (SLBM) | China | √ | |
| 129 | Type 052C Class (Luyang II Class) Chinese Destroyer | China | √ | |
| 130 | YJ-62 Chinese Anti-Ship Cruise Missile | China | √ | |
| 131 | C-602 Chinese Anti-Ship Cruise Missile | China | \checkmark | |
| 132 | CM-602G Chinese Cruise Missile | China | $\overline{}$ | |
| 133 | Type 051B Class (Luhai Class) Chinese Destroyer | China | √ | |
| 134 | Type 054A Class (Jiangkai Class) Chinese Frigate | China | √ | |
| 135 | Type 56 Class (Jiangdao Class) Chinese Corvette | China | $\overline{\qquad}$ | |
| 136 | Type 903 Class Chinese Replenishment Ship | China | √ | |
| 137 | Type 901 Class Chinese Fast Combat Support Ship | China | | |
| 138 | Type 904 Class (Dayun Class) Chinese General Stores Issue Ship | China | | |
| 139 | Type 22 Class (Houbei Class) Chinese Fast Attack Missile Boat | China | <u>·</u> ✓ | |
| 140 | Type 920 Class (Daishan Dao Class) Chinese Hospital Ship | China | | |
| 141 | Type 632 Class (Fulin Class) Chinese Oil Tanker | China | , | |
| 142 | PGZ-07/PGZ-09 Chinese 35mm Self-Propelled Anti-Aircraft Gun | China | <u> </u> | √ |
| 143 | Type 90 (PG99) Chinese 35mm Towed Anti-Aircraft Gun | China | | ./ |
| 143 | HQ-9 (Hong Qi 9) Chinese 8x8 Long-Range Air Defense Missile System | China | | |
| 144 | | | | _ v |
| 145 | Taian TA5380 Chinese 8x8 Special Wheeled Chassis | China | √ | |
| 146 147 | HT-233 Chinese 8x8 Self-Propelled Engagement Radar System EN 6 Chinese Man Portable Air Defence System (MANDADS) | China China | v | √ |
| | FN-6 Chinese Man-Portable Air Defence System (MANPADS) | | | V |
| 148 | Type 65 Chinese 37mm Twin-Barrel Anti-Aircraft Gun | China | <u>√</u> | |
| 149 | HQ-16 Chinese 6x6 Medium-Range Surface-to-Air Missile System | China | | √ |
| 150 | Yitian Chinese 6x6 Self-Propelled Short-Range Air-Defense System | China | | √ |
| 151 | Wing Loong II Chinese Medium-Altitude Long Endurance (MALE) Unmanned Aerial Vehicle (UAV) | China | | √ |
| 152 | GCZ-112 Chinese Tracked Multi-Purpose Engineer Vehicle (TMPEV) | China | | √ |
| 153 | Type 69 Chinese Anti-Personnel Mine | China | | √ |
| 154 | GCZ-110 Chinese Tracked Multi-Purpose Engineer Vehicle (TMPEV) | China | | ✓ |
| 155 | Type 72 Chinese Landmine | China | | ✓ |
| 156 | GSL-130 Chinese Tracked Comprehensive Mine Clearing Vehicle (TCMCV) | China | | ✓ |
| 157 | QLZ-87 Chinese 35mm Automatic Grenade Launcher (AGL) | China | | √ |
| 158 | QBZ-95 Chinese 5.8mm Bullpup-Style Assault Rifle | China | | ✓ |
| 159 | Type 54 Chinese 12.7mm Heavy Machine Gun | China | ✓ | |
| 160 | PF-98 (Type 98) Chinese 120mm Anti-Tank Rocket Launcher | China | | ✓ |
| 161 | HJ-73 (Red Arrow-73) Chinese Man-Portable Anti-Tank Guided Missile (ATGM) System | China | | ✓ |
| 162 | HJ-9 (Red Arrow-9) Chinese Anti-Tank Guided Missile (ATGM) System | China | | \checkmark |
| 163 | HJ-8 (Red Arrow 8) Chinese Anti-Tank Guided Missile (ATGM) System | China | | \checkmark |
| 164 | VN-17 Chinese Tracked Infantry Fighting Vehicle (IFV) | China | | \checkmark |
| 165 | Tiger Type (Tiger 2065) Chinese Heavy 4x4 Armored Personnel Carrier (APC) | China | | ✓ |
| 166 | VN-3 Chinese 4x4 Armored Scout Car | China | | ✓ |
| 167 | ZBD-03 (WZ506) Chinese Airborne Infantry Fighting Vehicle (IFV) | China | √ | |
| 168 | Type 63-1 Chinese 60mm Mortar | China | \checkmark | |
| 169 | EQ2102 Chinese Transportation Vehicle for the UA ASN-207 | China | ✓ | |
| 170 | PLL-09 (Type 09) Chinese 122mm Self Propelled Howitzer | China | | √ |
| 171 | PLZ-05 (Type 05) Chines 155mm Self Propelled Howitzer | China | | √ |
| 172 | PLL-05 (Type 05) Chinese 120mm Self Propelled Mortar | China | | √ |
| 173 | SH-3 Chinese 122mm Self Propelled Howitzer | China | | √ |
| 174 | SH-2 Chinese 122mm Self Propelled Howitzer | China | | √ |
| 175 | SR-5 Chinese Guided Multiple Launch Rocket System | China | | · / |
| 176 | BL-904 Chinese Artillery Locating Radar | China | \checkmark | |
| 177 | 59-1 Chinese 130mm Towed Artillery | China | | √ |
| 178 | Type 63 Chinese 107mm Multiple Rocket Launcher (MRL) | China | | · ✓ |
| 179 | AH-1/AH-1A Chinese 155mm Towed Artillery | China | | · / |
| 180 | Type 83 Chinese 152mm Self-Propelled Howitzer (SPH) | China | | → |
| 181 | SH-1 Chinese 155mm Self Propelled Howitzer (SPH) | China | | V ✓ |
| 182 | PHL-03 Chinese 300mm Multiple Rocket Launcher (MRL) | China | | <u>,</u> |
| 183 | PLZ-45 (Type 88) Chinese 155mm Self-Propelled Howitzer (SPH) | China | | ∨ ✓ |
| 184 | | China | ./ | _ v |
| 185 | Type 56 Chinese 14.5-mm Towed Anti-Aircraft Gun | | √ | |
| | Type 58 Chinese 14.5mm Towed Anti-Aircraft Gun | China | √ | / |
| 186 | PT-Mi-Ba-III Czechoslovakian Anti-Tank Blast Mine | Czechoslovakia | | √ |
| 187 | PT-Mi-Ba II Czechoslovakian Anti-Tank Blast Mine | Czechoslovakia | | √ |
| 188 | PP-Mi-Sr II czechoslovakian Anti-Personnel Mine | Czechoslovakia | | √ |
| 189 | PT-Mi-K Czechoslovakian Anti-Tank Landmine | Czechoslovakia | | \checkmark |

Equipment Added/Updated Tracker (continued)

| | Equipment Added/Opdated Tracker (continued) | | | |
|--------|---|----------------|---------------|---------------|
| | December 2019 - February 2020 | | | |
| Number | Equipment Name | Country | Added | Updated |
| 190 | MT-55A Czechoslovakian Self-Propelled Armoured Bridgelayer | Czechoslovakia | | |
| 191 | Aero L-39 Czechoslovakian Light-Ground Attack Aircraft | Czechoslovakia | $\overline{}$ | |
| 192 | L-39 Albatros Czechoslovakian Attack Aircraft | Czechoslovakia | | $\overline{}$ |
| 193 | Iver Huitfeldt Class Danish Frigate | Denmark | √ | |
| 194 | ENS Gamal Abdel Nasser Egyptian Amphibious Assault Ship | Egypt | , | |
| 195 | ENS Anwar El Sadat Egyptian Amphibious Assault Ship | Egypt | | |
| 196 | Eurofighter Typhoon EF-2000 European Multirole Fighter Aircraft | Europe | | √ |
| 190 | | | | |
| | Tornado European Multirole Aircraft | Europe | | |
| 198 | R440 Crotale French 4x4 Short-Range Air Defense Missile System | France | √ | |
| 199 | MIACAH F1 French Anti-Tank Landmine | France | | √ |
| 200 | M61 (Piquet) French Anti=Personnel Mine | France | | √ |
| 201 | RASIT French 6x6 Ground-Surveillance Pulse Doppler Radar Vehicle | France | | √ |
| 202 | Mle 1951 (MI AP ID 51) French Anti-Personnel Blast Mine | France | | √ |
| 203 | MILAN 1 French Anti-Tank Guided Missile (ATGM) | France | | √ |
| 204 | FN MAG French 7.62mm General-Purpose Machine Gun | France | | ✓ |
| 205 | FN FAL French 7.62mm Automatic Battle Rifle | France | | ✓ |
| 206 | MILAN ER French Anti-Tank Guided Missile (ATGM) System | France | | \checkmark |
| 207 | AMX-10P French Amphibious Infantry Fighting Vehicle (IFV) | France | | ✓ |
| 208 | MO-120-RT French 120-mm Mortar | France | | √ |
| 209 | Caesar French 155mm Self Propelled Howitzer | France | | √ |
| 210 | AU-F1 155mm French Self-Propelled Gun (SPG) | France | | √ |
| 211 | Panhard VBL French 4x4 Scout Car | France | √ | |
| 212 | AA-52 French 7.62mm General-Purpose Machine Gun | France | · / | |
| 213 | Panhard VBL French 4x4 Light Armored Car | France | <i></i> | |
| 214 | R550 Magic 2 French Short-Range Air-to-Air Missile | France | <i>'</i> | |
| 215 | AS-30L French Short-to-Medium Range Air-to-Ground Missile | France | - | |
| 216 | AM 39 Exocet French Anti-Ship Missile | France | | |
| 217 | Mirage F1 French Fighter Aircraft | France | | |
| 217 | | | | |
| | Super 530F French Medium-Range Air-to-Air Missile | France | | |
| 219 | Matra R.530 French Short-Range Air-to-Air Missile | France | √ | |
| 220 | Super 530D French Medium-Range Air-to-Air Missile | France | | |
| 221 | Rafale French Multirole Fighter Aircraft | France | | √ |
| 222 | Mirage III French Fighter Aircraft | France | | ✓ |
| 223 | Mistral French Air-to-Air Missile | France | √ | |
| 224 | Crotale-NG French Short-Range Air Defense System | France | | ✓ |
| 225 | MILAN 2 French Anti-Tank Guided Missile (ATGM) System | France | | ✓ |
| 226 | MILAN 1 French Anti-Tank Guided Missile (ATGM) System | France | | ✓ |
| 227 | MILAN 2T French Anti-Tank Guided Missile (ATGM) System | France | | \checkmark |
| 228 | MILAN 3 French Anti-Tank Guided Missile (ATGM) System | France | | \checkmark |
| 229 | MILAN ER French Anti-Tank Guided Missile (ATGM) System | France | | ✓ |
| 230 | Mistral (Mistral Class) French Amphibious Assault Ship | France | √ | |
| 231 | Mistral Franch Man-Portable Air-Defense System (MANPADS) | France | $\overline{}$ | |
| 232 | M621 French 20mm Automatic Cannon | France | ✓ | |
| 233 | Charles De Gaulle Class French Nuclear-Powered Aircraft Carrier | France | √ | |
| 234 | Suffren Class (Barracuda Class) French Nuclear Attack Submarine | France | √ | |
| 235 | SM39 Exocet French Anti-Ship Cruise Missile | France | · | |
| 236 | Missile de Croisière Naval French Long-Range Cruise Missile | France | · / | |
| 237 | Dupuy De Lome Class French Intelligence Collection Ship | France | · | |
| 238 | CAC Fox French Unmanned Aerial Vehicle (UAV) | France | | √ |
| 239 | SIG Sauer P228 (M11) German 9mm Semi-Automatic Pistol | German | $\overline{}$ | V |
| 239 | Handflammpatrone DM34 German Single-Shot Disposable Incendiary Weapon | German | | |
| 240 | Liebherr FKL German All-Terrain Crane | Germany | | |
| 241 | | | ✓ ✓ | |
| | Oste Class (Type 423 Class) German Intelligence Collection Ship | Germany | ✓ | |
| 243 | Mauser BK-27 German 27mm Revolver Cannon | Germany | V | |
| 244 | DM-11 German Anti-Tank Blast Mine | Germany | | √ |
| 245 | PARM 1 (DM-12) German Off-Route Mine | Germany | | √ |
| 246 | PARM 2 German Off-Route Mine | Germany | | √ |
| 247 | Panzerfaust 3 German 60mm Anti-tank Grenade Launcher (ATGL) | Germany | | √ |
| 248 | PM-60 (K-1) German Anti-Tank Blast Mine | Germany | | √ |
| 249 | G3 Heckler and Koch German 7.62mm Select-Fire Battle Rifle | Germany | | ✓ |
| 250 | Rheinmetall MG 3 German 7.62mm General-Purpose Machine Gun | Germany | | ✓ |
| 251 | Armbrust (Crossbow) German 67mm Unguided Anti-Tank Recoilless Weapon | Germany | | ✓ |
| 252 | Panzerfaust 3 German 60mm Anti-tank Grenade Launcher (ATGL) | Germany | | \checkmark |

Equipment Added/Updated Tracker (continued)

| | Equipment Added/Opdated Tracker (continued) | | | |
|--------|---|---------------|----------|----------|
| | December 2019 - February 2020 | | | |
| Number | Equipment Name | Country | Added | Updated |
| 253 | Heckler & Koch HK417 German 7.62mm Battle Rifle | Germany | ✓ | |
| 254 | Marder 1A3 German Infantry Fighting Vehicle (IFV) | Germany | | ✓ |
| 255 | Heckler & Koch HK416 German 5.56mm Assault Rifle | Germany | ✓ | |
| 256 | Heckler & Koch M27 German 5.56mm Assault Rifle | Germany | ✓ | |
| 257 | Heckler & Koch G36 German 5.56mm Assault Rifle | Germany | √ | |
| 258 | Heckler & Koch MG36 German 5.56mm Light Machine Gun | Germany | √ | |
| 259 | Heckler & Koch G36V German 5.56mm Assault Rifle | Germany | ✓ | |
| 260 | Heckler & Koch G36A2 German 5.56mm Assault Rifle | Germany | √ | |
| 261 | Heckler & Koch G36K German 5.56mm Carbine Rifle | Germany | √ | |
| 262 | Heckler & Koch G36C German 5.56mm Carbine Rifle | Germany | √ | |
| 263 | Unimog 4023 German 4x4 Light Utility Vehicle | Germany | | √ |
| 264 | FV101 Scorpion 90 British Amphibious Combat Reconnaissance Vehicle | Great Britain | | √ |
| 265 | FV103 Spartan British Amphibious Armored Personnel Carrier (APC) | Great Britain | | √ |
| 266 | FV107 Scimitar British Armored Reconnaissance Vehicle | Great Britain | | |
| 267 | FV106 Samson British Armored Recovery Vehicle | Great Britain | | |
| 268 | BL755 British Cluster Bomb | Great Britain | √ | |
| 269 | Rapier British Towed Surface-to-Air Missile System | Great Britain | <i>'</i> | |
| 270 | AX50 British 12.7mm Anti-Material Rifle | Great Britain | <i>'</i> | |
| 271 | Mk 3 British Anti-Tank Mine | Great Britain | • | √ |
| 272 | Mk 7 British Anti-Tank Blast Mine | Great Britain | | ·/ |
| 273 | Starstreak British Short-Range Man-Portable Air-Defense System (MANPADS) | Great Britain | | |
| 274 | Supacat British 6x6 Amphibious All-Terrain Vehicle | Great Britain | √ | v |
| 275 | FV104 Samaritan British Armored Ambulance | Great Britain | V | |
| 276 | FV 104 Samantan British Infantry Fighting Vehicle (IFV) | Great Britain | | |
| 277 | | Greece | / | |
| 278 | Ypoploiarchos Votsis (Combattante lla Class) Greek Fast Attack Craft | | √ | ✓ |
| 278 | UKA-63 Hungarian Multipurpose Landmine | Hungary | | |
| | AK-63 (AMM) Hungarian 7.62mm Assault Rifle | Hungary | | V |
| 280 | INS Vikrant Class Indian Aircraft Carrier | India | √ | |
| 281 | INS Vikramaditya Class Indian Aircraft Carrier | India | √ | |
| 282 | Shivalik Class (Project 17 Class) Indian Frigate | Indian | √ | |
| 283 | Bung Tomo Class Indonesian Corvette | Indonesia | √ | |
| 284 | Aerosky Israeli Unmanned Aerial Vehicle | Irael | ✓ | |
| 285 | Pantsir-S1 (SA-22 Greyhound) Iranian Short-Range Air Defense Gun/Missile System | Iran | | √ |
| 286 | Ra'ad (Thunder) Iranian Medium-Range Surface-to-Air Missile (SAM) System | Iran | | √ |
| 287 | AT-4-EX Iranian 84mm Single-Use Anti-Tank Recoilless Rifle | Iran | | √ |
| 288 | RPG-29 (Vampir) Iranian 105mm Rocket-Propelled Grenade (RPG) Launcher | Iran | | √ |
| 289 | RPG-29 (Vampir) Iranian 105mm Rocket-Propelled Grenade (RPG) Launcher | Iran | | √ |
| 290 | 2S1 (Gvozdika) Iranian 122mm Self Propelled Howitzer | Iran | | √ |
| 291 | M107 Iranian 175mm Self Propelled Gun | Iran | | √ |
| 292 | Fadjr-5 Iranian 333mm Multiple Launch Rocket System (MLRS) | Iran | | √ |
| 293 | Hadid HM20 Iranian 122mm Multiple Launch Rocket System (MLRS) | Iran | | √ |
| 294 | Naze'at 6-H Iranian Close Range Ballistic Missile | Iran | | ✓ |
| 295 | M-46 Iranian 130mm Towed Gun | Iran | | √ |
| 296 | D-30 Iranian 122mm Towed Gun Howitzer | Iran | | √ |
| 297 | Type 63 Iranian 107mm Multiple Rocket Launcher (MRL) | Iran | | ✓ |
| 298 | 2S1 (Gvozdika) Iranian 122mm Self-Propelled Howitzer (SPH) | Iran | | ✓ |
| 299 | Raad-2M Iranian 155mm Self-Propelled Howitzer (SPH) | Iran | | ✓ |
| 300 | BTR-60 (Export) Iranian 8x8 Amphibious Armored Personnel Carrier (APC) | Iran | | ✓ |
| 301 | BTR-80 (Export) Iranian 8x8 Amphibious Armored Personnel Carrier (APC) | Iran | | ✓ |
| 302 | Rapier (Export) Iranian Surface-to-Air Missile System | Iran | ✓ | |
| 303 | Misagh-1 Iranian Man-Portable Surface-to-Air Missile System (MANPADS) | Iran | ✓ | |
| 304 | Misagh-2 Iranian Man-Portable Surface-to-Air Missile System (MANPADS) | Iran | ✓ | |
| 305 | 9K310 Igla-1 (SA-16 Gimlet) (Export) Iranian Man-Portable Air-Defense Systems (MANPADS) | Iran | ✓ | |
| 306 | 9K38 Igla (SA-18 Grouse) (Export) Iranian Man-Portable Air-Defense Missile System (MANPADS) | Iran | ✓ | |
| 307 | Crotale-NG (Export) Iranian Short-Range Air Defense System | Iran | ✓ | |
| 308 | Shahab Saghib (Shooting Star) Iranian Short-Range Air Defense Missile System | Iran | ✓ | |
| 309 | SAM-6 (Gainful) Iranian Surface-to-Air Missile System | Iran | ✓ | |
| 310 | SAM-15 (SA-15 Gauntlet) Iranian Short-Range Surface-to-Air Missile (SAM) System | Iran | ✓ | |
| 311 | SAM-14 (SA-14 Gremlin) Iranian Man-Portable Air Defense Missile System (MANPADS) | Iran | √ | |
| 312 | SAM-14 (SA-16 Gimlet) Iranian Man-Portable Air-Defense Systems (MANPADS) | Iran | √ | |
| 313 | M-1954 (M-46) Iranian 130mm Towed Gun | Iran | | √ |
| 314 | Kaman (Kaman Class) Iranian Fast Attack Craft | Iran | √ | |
| 315 | Khordad-3 Iranian Medium-Range Surface-to-Air Missile (SAM) System | Iran | | √ |
| | | | | |

Equipment Added/Updated Tracker (continued)

| Equipment Added/Opdated Tracker (continued) | | | | | | |
|---|---|-------------|--------------|--------------|--|--|
| | December 2019 - February 2020 | | | | | |
| Number | Equipment Name | Country | Added | Updated | | |
| 316 | Ghadir 942 (Ghadir Class) Iranian Midget Submarine | Iran | ✓ | | | |
| 317 | Shafaq Iranian Air-to-Surface Rocket | Iran | ✓ | | | |
| 318 | BMP-1 Iranian Amphibious Infantry Fighting Vehicle (IFV) | Iran | | ✓ | | |
| 319 | Boragh Iranian Amphibious Armored Personnel Carrier (APC) | Iran | ✓ | | | |
| 320 | Rakhsh Iranian 4x4 Armored Personnel Carrier (APC) | Iran | ✓ | | | |
| 321 | AT-5 Towsan Iranian Anti-Tank Guided Missile (ATGM) | Iran | | ✓ | | |
| 322 | 9M14 Malyutka (AT-3 Sagger) Iranian Anti-Tank Guided Missile (ATGM) | Iran | | ✓ | | |
| 323 | Oerlikon GDF-001 Iranian 35mm Towed Anti-Aircraft Gun | Iran | | \checkmark | | |
| 324 | D-20 Iranian 152mm Towed Gun / Howitzer | Iran | | \checkmark | | |
| 325 | GHN-45 Iranian 155mm Towed Gun / Howitzer | Iran | | ✓ | | |
| 326 | M114A1 Iranian 155mm Towed Howitzer | Iran | | \checkmark | | |
| 327 | BM-21 Grad (Export) Iranian 122mm Multiple Rocket Launcher (MRL) | Iran | | ✓ | | |
| 328 | Paykan (Sina Class) Iranian Fast Attack Craft | Iran | ✓ | | | |
| 329 | Laith-90 Iraqi Medium-Range Artillery Rocket System | Iraq | \checkmark | | | |
| 330 | Spike Israeli Anti-tank Guided Missile (ATGM) System | Israel | | ✓ | | |
| 331 | MATADOR Israeli 90mm Man-Portable Anti-Tank Anti Door Weapon System | Israel | ✓ | | | |
| 332 | Mini Uzi Israeli 9mm Submachine Gun | Israel | ✓ | | | |
| 333 | Uzi Israeli 9mm Submachine Gun | Israel | | ✓ | | |
| 334 | Micro Uzi Israeli 9mm Submachine Gun | Israel | ✓ | | | |
| 335 | Uzi Pro Israeli 9mm Submachine Gun | Israel | ✓ | | | |
| 336 | Sholef Israeli 155mm Self-Propelled Howitzer | Israel | ✓ | | | |
| 337 | Hermes 900 Israeli Unmanned Aerial Vehicle (UAV) | Israel | | √ | | |
| 338 | Skylark III Israeli Unmanned Aerial Vehicle (ÜAV) | Israel | | √ | | |
| 339 | Bird-Eye 400 Israeli Reconnaissance Unmanned Aerial Vehicle (UAV) | Israel | | ✓ | | |
| 340 | Aspide Italian Air-to-Air Missile | Italian | ✓ | | | |
| 341 | Valmara 69 Italian Bouncing Anti-Personnel Mine | Italy | | ✓ | | |
| 342 | VS-50 Italian Anti-Personnel Blast Mine | Italy | | √ | | |
| 343 | SB-33 Italian Anti-Personnel Mine | Italy | | ✓ | | |
| 344 | Benelli M4 Super 90 (M1014) Italian Semi-Automatic Shotgun | Italy | √ | | | |
| 345 | Franchi SPAS-15 Italian 12-Gauge Shotgun | Italy | √ | | | |
| 346 | KD Perdana (Perdana Class) Malaysian Fast Attack Craft | Malaysia | ✓ | | | |
| 347 | M-1991 North Korean 120mm MRLS | North Korea | ✓ | | | |
| 348 | VTT-323 Korean 107mm Multiple Rocket Launcher (MRL) | North Korea | | \checkmark | | |
| 349 | M-1978 Koksan North Korea 170mm Self-Propelled Gun (SPG) | North Korea | | ✓ | | |
| 350 | A-5 (Fantan) North Korean Attack Aircraft | North Korea | | ✓ | | |
| 351 | M1985 North Korea Light Battle Tank | North Korea | | \checkmark | | |
| 352 | Pokpung-ho North Korea Main Battle Tank (MBT) | North Korea | ✓ | | | |
| 353 | Bulsae-3 (AT-14 Spriggan) North Korean Man-Portable Anti-Tank Guided Missile (ATGM) | North Korea | \checkmark | | | |
| 354 | Chonma-ho North Korean Main Battle Tank (MBT) | North Korea | \checkmark | | | |
| 355 | M1974 North Korea 152mm Self-Propelled Gun-Howitzer System | North Korea | ✓ | | | |
| 356 | ZTS-63 (Export) North Korea Amphibious Light Tank | North Korea | ✓ | | | |
| 357 | T-55 (Export) North Korean Main Battle Tank (MBT) | North Korea | ✓ | | | |
| 358 | ZTS-63 (Export) North Korea Amphibious Light Tank | North Korea | ✓ | | | |
| 359 | Model 1981 "Shin'heung" (PT-85) North Korean Light Amphibious Tank | North Korea | ✓ | | | |
| 360 | Type 59 (Export) North Korean Main Battle Tank (MBT) | North Korea | ✓ | | | |
| 361 | PT-76 (Export) North Korea Light Amphibious Tank | North Korea | √ | | | |
| 362 | T-34-85 (Export) North Korea Medium Tank | North Korea | ✓ | | | |
| 363 | T-62 (Export) North Korean Medium Tank | North Korea | ✓ | | | |
| 364 | T-54 (Export) North Korea Medium Tank | North Korea | √ | | | |
| 365 | BMD-1 (Export) North Korea Airborne Amphibious Infantry Fighting Vehicle (IFV) | North Korea | ✓ | | | |
| 366 | S-200 Dubna (SA-5 Gammon) (Export) North Korean Surface-to-Air Missile (SAM) System | North Korea | ✓ | | | |
| 367 | 2K6 Luna (FROG-5) (Export) North Korean Artillery Rocket System | North Korea | √ | | | |
| 368 | M-1985 North Korean 240mm Multiple Rocket Launcher | North Korea | ✓ | | | |
| 369 | S-75 Dvina (SA-2 Guideline) (Export) North Korean Strategic Surface-to-Air Missile System | North Korea | ✓ | | | |
| 370 | S-125 Neva/Pechora (SA-3 Goa) (Export) North Korean 6x6 Surface-to-Air Missile System | North Korea | ✓ | | | |
| 371 | D-1 (M1943) (Export) North Korea 152mm Towed Howitzer | North Korea | ✓ | | | |
| 372 | M-1944 (BS-3) (Export) North Korean Towed Anti-Tank Gun | North Korea | ✓ | | | |
| 373 | M-1954 (M-46) (Export) North Korean 130mm Towed Gun | North Korea | ✓ | | | |
| 374 | M1937 (ML-20) (Export) North Korean 152mm Towed Howitzer-Gun | North Korea | ✓ | | | |
| 375 | Bulsae-3 (AT-14 Spriggan) North Korean Man-Portable Anti-Tank Guided Missile (ATGM) | North Korea | | ✓ | | |
| 376 | 9K35 Strela-10 (SA-13 Gopher) (Export) North Korean Short-Range Surface-to-Air Missile System | North Korea | √ | | | |
| 377 | D-20 (Export) North Korean 152mm Towed Gun-Howitzer | North Korea | ✓ | | | |
| 378 | BM-24 (Katyusha) (Export) North Korean 240mm Multiple Rocket Launcher | North Korea | \checkmark | | | |

Equipment Added/Updated Tracker (continued)

| | Equipment Added/Opdated Tracker (continued) | | | |
|--------|---|-------------------------|--------------|--------------|
| | December 2019 - February 2020 | | | |
| Number | Equipment Name | Country | Added | Updated |
| 379 | 9K52 Luna-M (FROG-7) (Export) North Korean Medium-Range Artillery Rocket System | North Korea | √ | |
| 380 | BM-21 Grad (Export) North Korean 122mm Multiple Rocket Launcher (MRL) | North Korea | √ | |
| 381 | R-17 Elbrus (R-300 Scud B) (Export) North Korean Short-Range Ballistic Missile | North Korea | √ | |
| 382 | ZSU-23-4 Shilka (Export) North Korean 23mm Self-Propelled Anti-Aircraft Weapon System | North Korea | √ | |
| 383 | AZP S-60 (Export) North Korean 57mm Towed Anti-Aircraft Gun | North Korea | √ | |
| 384 | ZU-23-2 (Export) North Korean 23mm Towed Anti-Aircraft Gun | North Korea | √ | |
| 385 | ZPU-4 (Export) North Korean 14.5-mm Towed Anti-Aircraft Gun | North Korea | √ | |
| 386 | ZSU-57-2 (Ob'yekt 500) (Export) North Korean 57mm Self-Propelled Anti-Aircraft Gun | North Korea | √ | |
| 387 | M-1939 (61-K) (Export) North Korean 37mm Towed Anti-Aircraft Gun | North Korea | √ | |
| 388 | D-44 (Export) North Korean 85mm Towed Artillery Gun | North Korea | √ | |
| 389 | ZPU-2 (Export) North Korean 14.5mm Towed Anti-Aircraft Gun | North Korea | · ✓ | |
| 390 | Bulsae-2 North Korean 120mm Anti-Tank Guided Missile (ATGM) | North Korea | √ | |
| 391 | KN-06 Pon'gae-5 North Korean Surface-to-Air Missile (SAM) System | North Korea | √ · | |
| 392 | VTT-323 (M1973 Sinhung) North Korean Amphibious Armored Personnel Carrier (APC) | North Korea | <i>'</i> | |
| 393 | Type 63 (Export) North Korean 107mm Multiple Rocket Launcher (MRL) | North Korea | <i>'</i> | |
| 394 | BTR-80A (Export) North Korean 8x8 Amphibious Armored Personnel Carrier (APC) | North Korea | <u>,</u> | |
| 395 | Victory-58 North Korean 4x4 Utility Truck | North Korea | V ✓ | |
| 396 | ZIL-131 (Export) North Korean 6x6 General Purpose Truck | North Korea | √ | |
| 397 | PTS-M (Ob'yekt 65) (Export) North Korean Tracked Amphibious Transport Vehicle | North Korea | ∨ | |
| 398 | | | ∨ ✓ | |
| 399 | BTR-152 (Export) North Korean 6x6 Armored Personnel Carrier (APC) BTR-60 (Export) North Korean 8x8 Amphibious Armored Personnel Carrier (APC) | North Korea North Korea | ∨ ✓ | |
| 400 | | North Korea | | |
| 400 | Type ZSD 63 (YW531) (Export) North Korean Armored Personnel Carrier (APC) | | ✓ ✓ | |
| 401 | UAZ-469 (Export) North Korean 4x4 Light Utility Vehicle | North Korea | | |
| | Antonov An-2 (Colt) (Export) North Korean Single-Engine Biplane | North Korea | √ | |
| 403 | Mi-2 (Hoplite) (Export) North Korean Small Transport Helicopter | North Korea | √ | |
| 404 | Mil Mi-8 (Hip-C) (Export) North Korean Medium Transport Helicopter | North Korea | √ | |
| 405 | MD 500 Defender (Export) North Korean Light Multi-Role Helicopter | North Korea | √ | |
| 406 | Tupolev Tu-143 (Export) North Korean Unmanned Reconnaissance Aircraft | North Korea | √ | |
| 407 | Panghyon-2 North Korean Unmanned Aerial Vehicle (UAV) | North Korea | √ | |
| 408 | Sang-O Class North Korean Submarine | North Korea | √ | |
| 409 | SU-100 North Korean Tank Destroyer | North Korea | √ | |
| 410 | Type 73 North Korean 7.62mm Light Machine Gun | North Korea | ✓ | |
| 411 | P2 Mk 2 / P3 Mk 2 Pakistani Anti-Tank Blast Mine | Pakistan | | ✓ |
| 412 | MPB Polish Anti-Tank Mine | Poland | | ✓ |
| 413 | PKM-2 Polish 14.5mm Towed Anti-Aircraft Gun | Poland | √ | |
| 414 | 9K333 Verba (SA-25) Russian Man-Portable Infrared Homing Surface-to-Air Missile | Russia | ✓ | |
| 415 | 9S737 Ranzhir Russian 6x6 Mobile Command Center | Russia | ✓ | |
| 416 | Barnaul-T Russian Air Defense Command and Control System | Russia | ✓ | |
| 417 | PU-12M6 Russian 8x8 Mobile Command and Control Vehicle | Russia | ✓ | |
| 418 | PU-12M7 Russian 8x8 Mobile Command and Control Vehicle | Russia | ✓ | |
| 419 | 2S6M Tunguska-M Russian 30mm Self-Propelled Anti-Aircraft System | Russia | | \checkmark |
| 420 | 2S6M1 Tunguska-M1 Russian 30mm Self-Propelled Anti-Aircraft System | Russia | \checkmark | |
| 421 | S-125 Neva/Pechora (SA-3 Goa) Russian 6x6 Surface-to-Air Missile System | Russia | | ✓ |
| 422 | P-15 Tropa (FLAT FACE) Russian 2D UHF Radar System | Russia | √ | |
| 423 | S-125 Newa (LOW BLOW) Russian Tracking and Missile Control Radar System | Russia | ✓ | |
| 424 | PRV-11 (SIDE NET) Russian Height-Finder Radar System | Russia | ✓ | |
| 425 | 9K34 Strela-3 (SA-14 Gremlin) Russian Man-Portable Air Defense Missile System (MANPADS) | Russia | | √ |
| 426 | 9K37 Buk (SA-11 Gadfly) Russian Self-Propelled Medium-Range Surface-to-Air Missile System | Russia | | \checkmark |
| 427 | S-300PMU-1 (SA-20 Gargoyle) Russian Long-Range Air Defense Missile System | Russia | | \checkmark |
| 428 | 9K330 Tor (SA-15 Gauntlet) Russian Short-Range Surface-to-Air Missile System | Russia | | \checkmark |
| 429 | 9S80 Dog Ear Russian Target Acquisition Radar System | Russia | √ | |
| 430 | S-500 Russian Air Defense Artillery System | Russia | | √ |
| 431 | 9S80M1 Sborka-M1 (PPRU-M1) Russian Air Defense Command and Control Vehicle | Russia | | √ |
| 432 | KS-19 Russian 100mm Towed Anti-Aircraft Gun | Russia | | |
| 433 | AZP S-60 Russian 57mm Towed Anti-Aircraft Gun | Russia | | · ✓ |
| 434 | 2K12 Kub (SA-6 Gainful) Russian Surface-to-Air Missile System | Russia | | <u> </u> |
| 435 | 9K33 Osa (SA-8 Gecko) Russian 6x6 Amphibious Short-Range Tactical Surface-to-Air Missile System | Russia | √ | • |
| 436 | S-300P (SA-10 Grumble) Russian 8x8 Long-Range Surface-to-Air Missile System | Russia | · · | √ |
| 437 | S-75 Dvina (SA-2 Guideline) Russian Strategic Surface-to-Air Missile System | Russia | | · / |
| 438 | 9K35 Strela-10 (SA-13 Gopher) Russian Short-Range Surface-to-Air Missile System | Russia | | ✓ |
| 439 | 9K32 Strela-2 (SA-7 Grail) Russian Man Portable Surface-to-Air Missile (MANPAD) | Russia | | V ✓ |
| 440 | ZSU-23-4 Shilka Russian 23mm Self-Propelled Anti-Aircraft Weapon System | Russia | | ∨ ✓ |
| 440 | Buk-M3 (SA-X-27) Russian Medium-Range Air Defense Missile System | | | ∨ ✓ |
| 441 | Duk-ivio (OA-A-21) Russian ivieulum-Range Ali Delense iviissile oystem | Russia | | V |

Equipment Added/Updated Tracker (continued)

| Equipment Added/opdated Tracker (continued) | | | | | | | |
|---|--|----------|--------------|--------------|--|--|--|
| | December 2019 - February 2020 | | | | | | |
| Number | Equipment Name | Country | Added | Updated | | | |
| 442 | S-300PMU-2 Favorit (SA-20B Gargoyle) Russian Long-Range Air Defense Missile System | Russia | \checkmark | | | | |
| 443 | S-500 Russian Long-Range Air Defense and Anti-Ballistic Missile System | Russia | | √ | | | |
| 444 | PMZ-40 Russian Multi-Purpose Landmine | Russia | | √ | | | |
| 445 | TMD-B Russian Anti-Tank Blast Mine | Russia | | √ | | | |
| 446 | OZM-4 Russian Anti-Personnel Mine | Russia | | \checkmark | | | |
| 447 | OZM-72 Russian Anti-Personnel Mine | Russia | | √ | | | |
| 448 | PMN-2 Russian Anti-Personnel Mine | Russia | | √ | | | |
| 449 | PMN-1 Russian Anti-Personnel Mine | Russia | | \ | | | |
| 450 | PFM-1 (Green Parrot) Russian Anti-Persoonnel Mine | Russia | | \ | | | |
| 451 | POM-1S Russian Anti-Personnel Fragmentation Mine | Russia | | | | | |
| 452 | PMD-6 Russian Anti-Personnel Mine | Russia | | | | | |
| 453 | PMM-2 Russian Self-Propelled Amphibious Floating Bridging and Ferry System | Russia | | \ \ \ | | | |
| 454 | UMZ Russian 6x6 Scatterable Minelaying System | Russia | | · / | | | |
| 455 | BMR-3M Russian Mine Clearing Vehicle | Russia | | \ \ \ \ | | | |
| 456 | PTM-1S Russian Anti-Personnel Mine | Russia | | · / | | | |
| 457 | TM-57 Russian Anti-Tank Blast Mine | Russia | | → | | | |
| 458 | TMM Russian Truck-Mounted Scissors Bridge | Russia | | \ \ \ \ | | | |
| 459 | TMM-6 Russian 8x8 Truck-Mounted Scissors Bridge | Russia | ✓ | | | | |
| 460 | MZKT-7930 Astrolog Russian 8x8 Special Wheeled Chassis | Russia | V ✓ | | | | |
| 460 | TM-62 Russian Anti-Tank Blast Mine | Russia | V | | | | |
| | | | | | | | |
| 462 463 | MON-200 Russian Directional Type Anti-Personnel Mine | Russia | | √ | | | |
| | MON 50 Russian Directional Type Anti-Personnel Mine | Russia | | V / | | | |
| 464 | IMR-2M Russian Heavy Combat Engineering Vehicle | Russia | | V | | | |
| 465 | Uran-6 Russian Multi-functional Robotic Mine-Clearing System | Russia | | √ | | | |
| 466 | KMT-5M Russian Tank Mounted Mechanical Mine Clearing Device | Russia | | √ | | | |
| 467 | MTU-72 Russian Armored Bridgelayer | Russia | | √ | | | |
| 468 | PMP Russian Heavy Folding Pontoon Bridge | Russia | | √ | | | |
| 469 | IRM Russian Engineer Reconnaissance Vehicle | Russia | | ✓ | | | |
| 470 | Credo-1E Russian Unified Moving Target Locating Radar | Russia | | √ | | | |
| 471 | PSNR-5 Russian Ground Surveillance Radar | Russia | | √ | | | |
| 472 | GMZ-3 Russian Tracked Minelaying Vehicle | Russia | | √ | | | |
| 473 | UMZ Russian 6x6 Scatterable Minelaying System | Russia | | √ | | | |
| 474 | POM-2S Russian Scatterable Anti-Personnel Fragmentation Landmine | Russia | | √ | | | |
| 475 | TM-83 Russian Anti-Tank Mine | Russia | | √ | | | |
| 476 | PMN-4 Russian Anti-Personnel Mine | Russia | | √ | | | |
| 477 | MON-100 Russian Anti-Personnel Mine | Russia | | ✓ | | | |
| 478 | BAT-M Russian Tracked Route-Clearing Vehicle | Russia | | √ | | | |
| 479 | PMZ-4 (PMR-3) Russian Towed Mechanical Minelayer | Russia | | ✓ | | | |
| 480 | T-55AMV Russian Main Battle Tank (MBT) | Russia | | ✓ | | | |
| 481 | 2S9-1M Russian 120mm Self-Propelled Mortar (SPM) | Russia | | ✓ | | | |
| 482 | Poseidon Russian Unmanned Underwater Vehicle | Russia | | ✓ | | | |
| 483 | Tupolev Tu-22M (Backfire) Russian Long-Range Strategic Bomber | Russia | | \checkmark | | | |
| 484 | SSC-8 (9M729) Russian Multi-Role Long Range Cruise Missile | Russia | | ✓ | | | |
| 485 | PTM-3 Russian Anti-Tank Mine | Russia | | √ | | | |
| 486 | TM-46 Russian Anti-Tank Mine | Russia | | ✓ | | | |
| 487 | LMG Russian Rocket Propelled Mine | Russia | | ✓ | | | |
| 488 | TMK-2 Russian Anti-Tank Mine | Russia | | ✓ | | | |
| 489 | UR-77 Meteorit Russian Mine Clearing Vehicle | Russia | | √ | | | |
| 490 | TM-41 Russian Anti-Tank Mine | Russia | | √ | | | |
| 491 | POMZ-2M Russian Anti-Personnel Mine | Russia | | √ | | | |
| 492 | BTM-3 Russian Trenching Machine | Russia | | √ | | | |
| 493 | RPG-27 Russian 105mm Disposable Anti-Tank Grenade Launcher (ATGL) | Russia | | √ | | | |
| 494 | RPG-29(Tripod Mounted) Russian 105mm Anti-tank Grenade Launcher (ATGL) | Russia | | √ | | | |
| 495 | OSV-96 Russian 12.7mm Semi-Automatic Anti-Material Rifle | Russia | | √ | | | |
| 496 | GM-94 Russian 43mm Pump-Action Grenade Launcher | Russia | | √ | | | |
| 497 | RPG-28 Klyukva (Cranberry) Russian 125mm Handheld Anti-Tank Rocket Launcher | Russia | | √ | | | |
| 498 | PKP Pecheneg Russian 7.62mm General-Purpose Machine Gun | Russia | | · / | | | |
| 499 | OSV-96 Russian 12.7mm Semi-Automatic Sniper Rifle | Russia | √ | | | | |
| 500 | SPG-9 Kopye (Spear) Russian 73mm Tripod-Mounted Man-Portable Recoilless Gun | Russia | | - | | | |
| 501 | 9K113 Konkurs (AT-5 Spandrel) Russian Anti-Tank Guided Missile (ATGM) | Russia | | · / | | | |
| 502 | PKM Russian 7.62mm General-Purpose Machine Gun | Russia | | V ✓ | | | |
| 503 | RPK Russian 7.62mm Light Machine Gun | Russia | | V ✓ | | | |
| 504 | RPO-A Shmel Russian 93mm Man-Portable Disposable Rocket Launcher | Russia | ✓ | | | | |
| JU4 | Tri O-n Offittier (Nussian Soffitti Ivian) of table Disposable (Nocket Launorie) | i Nubbia | V | | | | |

Equipment Added/Updated Tracker (continued)

| | Equipment Added/Opdated Tracker (continued) | | | |
|--------|---|----------|----------|------------|
| | December 2019 - February 2020 | | | |
| Number | Equipment Name | Country | Added | Updated |
| 505 | RPO PDM-A (Shmel-M)Russian 90mm Thermobaric Rocket Launcher | Russia | ✓ | |
| 506 | NSV Russian 12.7mm Heavy Machine Gun | Russia | | ✓ |
| 507 | 9K115 Metis (AT-7 Saxhorn) Russian Man-Portable Anti-Tank Guided Missile (ATGM) | Russia | | ✓ |
| 508 | 9K115-2 Metis-M (AT-13 Saxhorn-2) Russian Man-Portable Anti-Tank Guided Missile (ATGM) | Russia | ✓ | |
| 509 | Toophan (BGM-71A TOW) Iranian Anti-Tank Guided Missile (ATGM) | Russia | | √ |
| 510 | 9M14 Malyutka (AT-3 Sagger) Russian Anti-Tank Guided Missile (ATGM) | Russia | | √ |
| 511 | RPO-A Shmel Russian 93mm Man-Portable Flamethrower | Russia | √ | |
| 512 | 2A45 Sprut-A Russian 125mm Towed Anti-Tank Gun | Russia | | √ |
| 513 | RPG-29 (Vampir) Russian 105mm Rocket-Propelled Grenade (RPG) Launcher | Russia | | √ |
| 514 | 2A45 Sprut-B Russian 125mm Towed Anti-Tank Gun | Russia | | √ |
| 515 | 9M133 Kornet (AT-14 Spriggan) Man-Portable Anti-Tank Guided Missile (ATGM) | Russia | | √ |
| 516 | 9M133 Kornet-EM Russian 4x4 Anti-Tank Guided Missile (ATGM) | Russia | √ | |
| 517 | AGS-17 Russian 30mm Automatic Grenade Launcher | Russia | | √ |
| 518 | PKT Russian 7.62mm General-Purpose Machine Gun | Russia | | |
| 519 | KPV-14.5 Russian 14.5mm Heavy Machine Gun | Russia | | |
| 520 | AK-15 Russian 5.45mm Assault Rifle | Russia | √ | , |
| 521 | AKM Russian 7.62mm Automatic Assault Rifle | Russia | <u> </u> | ✓ |
| 522 | B-11 Russian 107mm Recoilless Gun | Russia | | · / |
| 523 | RPK-74 (AK-47) Russian 5.45mm Assault Rifle | Russia | | , |
| 524 | 9K116-1 Bastion (AT-10 Stabber) Russian Anti-Tank Guided Missile (ATGM) System | Russia | | · / |
| 525 | RPD Russian 7.62mm Light Machine Gun | Russia | | V ✓ |
| 526 | AK-74 Russian 5.45mm Automatic Assault Rifle | Russia | | V ✓ |
| 527 | AK-74 Russian 5.45mm Automatic Assault Rifle AKS-74 Russian 5.45mm Automatic Assault Rifle | Russia | | |
| 528 | AKS-74 Russian 5.45mm Automatic Assault Kille AK-74M Russian 5.45mm Automatic Carbine Rifle | Russia | | _ ` |
| 529 | AK-74W Russian 5.45mm Automatic Carbine Rifle AKS-74U Russian 5.45mm Automatic Assault Rifle | | | |
| 530 | | Russia | ✓ ✓ | |
| 531 | KSVK Russian 12.7mm Anti-Material Rifle | Russia | V / | |
| | AK-74 Russian 5.45mm Automatic Carbine Rifle | Russia | V | |
| 532 | AK-74M Russian 5.45mm Automatic Assault Rifle | Russia | | √ |
| 533 | RPG-7 Russia Rocket-Propelled Grenade Launcher | Russia | √ | |
| 534 | KSVK Russian 12.7mm Sniper Rifle | Russia | | ✓ |
| 535 | AKS-74 Russian 5.45mm Automatic Carbine Rifle | Russia | √ | |
| 536 | RPG-7V2 Russia Rocket-Propelled Grenade Launcher | Russia | √ | |
| 537 | RPG-7D3 Russia Rocket-Propelled Grenade Launcher | Russia | ✓ | |
| 538 | ASG-17 Plamya Russian 30mm Automatic Grenade Launcher | Russia | | √ |
| 539 | 9M133 Kornet (AT-14 Spriggan) Russian Man-Portable Anti-Tank Guided Missile (ATGM) | Russia | | √ |
| 540 | Misagh-2 Russian Man Portable Air-Defense Missile System (MANPADS) | Russia | | √ |
| 541 | SVD-63 Russian 7.62mm Russian Automatic Sniper Rifle | Russia | | √ |
| 542 | RPG-30 Russian Disposable Anti-tank Grenade Launcher (ATGL) | Russia | | √ |
| 543 | SV-98 Russian 7.62mm Bolt-Action Sniper Rifle | Russia | | ✓ |
| 544 | SV-98M Russian 7.62mm Bolt-Action Sniper Rifle | Russia | √ | |
| 545 | RPG-22 Russian 72.5mm Anti-Tank Rocket Launcher | Russia | | √ |
| 546 | 9M133 Kornet-EM Russian 4x4 Anti-Tank Guided Missile (ATGM) Vehicle | Russia | | ✓ |
| 547 | PKP Pecheneg Russian 7.62mm General-Purpose Machine Gun | Russia | | ✓ |
| 548 | SG-43 Goryunov Russian 7.62mm Medium Machine Gun | Russia | | √ |
| 549 | Kord 6P50 Russian 12.7mm Heavy Machine Gun | Russia | | ✓ |
| 550 | SKS Russian 7.62mm Semi-Automatic Carbine Rifle | Russia | | ✓ |
| 551 | RGN Russian Fragmentation Grenade | Russia | ✓ | |
| 552 | RGO Russian Fragmentation Grenade | Russia | ✓ | |
| 553 | Saiga-12 Russian 12-Gauge Shotgun | Russia | ✓ | |
| 554 | Bandayevsky RB-12 Russian 12-Gauge Shotgun | Russia | ✓ | |
| 555 | GAZ-3344 Russian Articulated All-Terrain Tracked Carrier | Russia | √ | |
| 556 | Kushetka-B Russian 8x8 Amphibious Armored Personnel Carrier (APC) | Russia | ✓ | |
| 557 | BMP-3M Russian Amphibious Infantry Fighting Vehicle (IFV) | Russia | | √ |
| 558 | RPK Russian 7.62 Light Machine Gun | Russia | ✓ | |
| 559 | 2B14 Podnos Russian 82mm Mortar | Russia | √ | |
| 560 | 2B24 Russian 82mm Mortar | Russia | √ | |
| 561 | BRDM 2U Russian 4x4 Command and Control Vehicle | Russia | √ | |
| 562 | MDK-3 Russian Tracked Ditching Vehicle | Russia | √ | |
| 563 | BK-16 Raptor Russian Fast Attack Craft | Russia | <i>'</i> | |
| 564 | BK-10 Russian Fast Attck Craft (Assault Boat) | Russia | <i>'</i> | |
| 565 | Snar 10 Russian Battlefield Surveillance Radar | Russia | | √ |
| 566 | ARK-1M RYS Russian Artillery Locating Radar | Russia | √ | |
| 567 | 2A36 Giatsint-B Russian 152mm Towed Gun | Russia | <u> </u> | √ |
| 507 | Lines Ciatoline Diffaccian Tozinini Towed Gail | , tabbia | | , |

Equipment Added/Updated Tracker (continued)

| | Equipment Added/opdated Tracker (Continued) | | | |
|--------|---|---------|----------|--------------|
| | December 2019 - February 2020 | | | |
| Number | Equipment Name | Country | Added | Updated |
| 568 | 1V110 Russian Artillery Command and Reconnaissance Vehicle | Russia | | \checkmark |
| 569 | 9A51 Prima Russian 122mm MLRS | Russia | | ✓ |
| 570 | 2S19M1 (Msta-SM1) Russian 152mm Self Propelled Howitzer | Russia | | ✓ |
| 571 | 2S19M2 (Msta-SM2) Russian 152mm Self Propelled Howitzer | Russia | | ✓ |
| 572 | 2S9-1M Russian 120mm Self Propelled Howitzer | Russia | | ✓ |
| 573 | 2S23 Nona-SVK Russian 120mm Self Propelled Mortar System | Russia | | √ |
| 574 | 2S34 Hosta / Chosta Russian 120mm Self Propelled Mortar | Russia | | ✓ |
| 575 | BM-30 Smerch Russian 300mm Multiple Launch Rocket System | Russia | | √ |
| 576 | 2A65 Msta-B Russian 152mm Towed Gun Howitzer | Russia | | \checkmark |
| 577 | UB-32 Russian 57mm Reusable, 32-salvo Rocket Pod | Russia | | √ |
| 578 | BM-21 Grad Russian 122mm Multiple Rocket Launch System | Russia | | √ |
| 579 | 2A45 Sprut-A Russian 125mm Towed Anti-Tank Gun | Russia | | √ |
| 580 | 2S35-1 Koalitsiya-SV-KSh Russian 152mm Self Propelled Howitzer | Russia | | √ |
| 581 | 9A51 Prima Russian 122mm MLRS | Russia | | |
| 582 | 1V13 Russian Artillery Command and Reconnaissance Vehicle | Russia | | |
| 583 | 1V15 Russian Artillery Command and Reconnaissance Vehicle | Russia | | <i>'</i> |
| 584 | M-46 Russian 130mm Towed Gun | Russia | | , / |
| 585 | 2S3M1 Russian 152mm Self-Propelled Howitzer (SPH) | Russia | | |
| 586 | 2S9-1 Russian 120mm Self-Propelled Mortar (SPM) | Russia | | |
| 587 | 9A52-4 Tornado Russian 300mm Multiple Rocket Launcher (MRL) | Russia | | |
| 588 | Uragan-1M Russian 220mm/300mm Multiple Launch Rocket System (MRL) | Russia | | |
| 589 | 2B16 Nona-K Russian 120mm Towed Combination Gun | Russia | | V ✓ |
| 590 | 2S9 NONA Russian 120mm Self-Propelled Mortar (SPM) | Russia | | V ✓ |
| 591 | MT-LB Russian Amphibious Armored Personnel Carrier (APC) | Russia | | V ✓ |
| 592 | BTR-152 Russian 6x6 Armored Personnel Carrier (APC) | Russia | | ∨ ✓ |
| 593 | BMP-2M Berezhok Russian Amphibious Infantry Fighting Vehicle (IFV) | Russia | | V / |
| 593 | LUAZ-967 Russian 4x4 Amphibious Vehicle | Russia | | V √ |
| 595 | | | | · . |
| | UAZ-469 Russian 4x4 Light Utility Vehicle | Russia | | ✓ |
| 596 | BMP-1 Russian Amphibious Infantry Fighting Vehicle (IFV) | Russia | | <u> </u> |
| 597 | BMD-3 Russian Airborne Amphibious Infantry Fighting Vehicle (IFV) | Russia | | √ |
| 598 | BTR-D Russian Airborne Armored Personnel Carrier (APC) | Russia | | √ |
| 599 | GAZ-2975 Tigr Russian Light Utility Vehicle | Russia | | √ |
| 600 | BMP-3K Russian Amphibious Infantry Fighting Vehicle (IFV) | Russia | | √ |
| 601 | BMP-2 Russian Amphibious Infantry Fighting Vehicle (IFV) | Russia | | √ |
| 602 | BTR-50 Russian Amphibious Armored Personnel Carrier (APC) | Russia | | √ |
| 603 | BTR-90 (GAZ-5923) Russian 8x8 Amphibious Armored Personnel Carrier (APC) | Russia | | √ |
| 604 | BTR-40 Russian 4x4 Armored Personnel Carrier (APC) | Russia | | √ |
| 605 | Tu-95 (Bear) Russian Strategic Bomber Aircraft | Russia | √ | |
| 606 | MIG-21 (Fishbed) Russian Fighter Aircraft | Russia | √ | |
| 607 | R-77 (AA-12 Adder) Russian Air-to-Air Missile | Russia | √ | |
| 608 | KH-31 (AS-17 Krypton) Russian Air-to-Surface Missile | Russia | √ | |
| 609 | Kh-31A Russian Anti-Ship Missile | Russia | √ | |
| 610 | KAB-500-OD Russian Fire and Forget Bomb | Russia | √ | |
| 611 | KAB-500 Russian Fire and Forget Bomb | Russia | ✓ | |
| 612 | Mil Mi-28 (Havoc) Russian Attack Helicopter | Russia | | ✓ |
| 613 | S-13 Russian 122mm Unguided Rocket | Russia | √ | |
| 614 | 9K114 Shturm (AT-6 Spiral) Russian SACLOS Radio Guided Anti-Tank Missile System | Russia | √ | |
| 615 | 9M120 Ataka (AT-9 Spiral-2) Russian Air-to-Surface Missile | Russia | ✓ | |
| 616 | Antonov An-26 (Curl) Russian Military Transport Aircraft | Russia | ✓ | |
| 617 | 9M120 Ataka (AT-9 Spiral-2) Russian Anti-Tank Guided Missile | Russia | ✓ | |
| 618 | Mig-23 (Flogger) Russian Fighter Aircraft | Russia | | ✓ |
| 619 | Su-24 (Fencer) Russian Attack Aircraft | Russia | | ✓ |
| 620 | MiG-25 (Foxbat) Russian Supersonic Interceptor and Reconnaissance Aircraft | Russia | | ✓ |
| 621 | A-50 (Mainstay) Russian Airborne Early Warning and Control (AEW&C) Aircraft | Russia | | ✓ |
| 622 | 9K37 Buk (SA-11 Gadfly) Russian Medium-Range Surface-to-Air Missile System | Russia | | ✓ |
| 623 | Su-30 Russian Multirole Fighter Aircraft | Russia | | ✓ |
| 624 | MiG-31 (Foxhound) Russian Attack Aircraft | Russia | | √ |
| 625 | Su-17 (Fitter) Russian Fighter-Bomber Aircraft | Russia | | √ |
| 626 | II-18 (Coot) Russian Reconnaissance Aircraft | Russia | | √ |
| 627 | MiG-29 (Fulcrum) Russian Multirole Fighter Aircraft | Russia | | √ |
| 628 | An-12 (Cub) Russian Transport Aircraft | Russia | | √ |
| 629 | IL-76 (Candid) Russian Cargo / Transport Aircraft | Russia | | √ |
| 630 | 9P157 Khrizantema-S Russian Anti-Tank Guided Missile System | Russia | | √ |
| | | | | |

Equipment Added/Updated Tracker (continued)

| September 2019 - February 2020 | Equipment Added/opdated Tracker (continued) | | | | | | |
|---|---|--|--------|--------------|--------------|--|--|
| Section | | December 2019 - February 2020 | | 1 | | | |
| Section | | | • | Added | . , | | |
| AGS 30 Mant Russian 30mm Automatic Grenade Laurcher | | | | | | | |
| Section | | | | | ✓ | | |
| 1.56 | | | | ✓ | | | |
| 1.75 | | | | | ✓ | | |
| 1.34 | | | | | | | |
| Deghaynov (IDP-26) Russian 7.62mm Light Machine Gun | | | | | | | |
| F-54 Russian Medium Tank | | | | | | | |
| February | | | | ✓ | | | |
| 641 266 Luna (FROG-5) Russian Artillery Rocket System Russia | | T-54 Russian Medium Tank | | \checkmark | | | |
| 642 D-1 (M1943) Russian 152mm Towed Howitzer Russia ✓ M-1944 (BS.3 Russia 107mm Towed Anti-Tank Gun Russia 1444 M-1954 (M.46) Russian 132mm Towed Gun Russia 1444 M-1954 (M.46) Russian 132mm Towed Gun Russia 1444 M-1954 (M.46) Russian 152mm Towed Gun Russia 1444 Russian 152mm Towed Gun Russia 1444 Russian 152mm Towed Gun Russia 1444 Russian 1444 Russian 1452mm Towed Gun Russia 1444 Russian 14 | | | Russia | | | | |
| 643 M-1944 (BS-3) Russia 100mm Towed Anti-Tank Gun Russia √ | | | Russia | \checkmark | | | |
| 645 Tor M2DT Russian H30mm Towed Gun Russia | | | Russia | ✓ | | | |
| For MZDT Russian Amphibious Short-Range Air Defense Missile System Russia V Missila Missila Missila Missila D-20 Russian 152mm Towed Gun-Howtzer Russia V D-20 Russian Short-Range Missila System Russia V D-20 Russian Short-Range Missila System Russia V D-20 Russian Medium-Range Air Defense Missila System Russia V D-20 Russian Medium-Range Air Defense Missila System Russia V D-20 Russian Medium-Range Air Defense Missila Postem Russia V D-20 Russian Medium-Range Air Defense Missila Russian V D-20 Russian Medium-Range Air Defense Missila Russian V Russian V Russian Russian V Russian Russian V Russian Russian V Russian V Russian V Russian V Russian Russian Russian Russian V Russian V Russian V Russian V Russian V Russian | | M-1944 (BS-3) Russia 100mm Towed Anti-Tank Gun | Russia | ✓ | | | |
| Might Migh | 644 | M-1954 (M-46) Russian 130mm Towed Gun | Russia | | √ | | |
| 646 M1937 (ML-20) Russian 152mm Towed Howitzer-Gun Russia √ 647 | 645 | Tor M2DT Russian Amphibious Short-Range Air Defense Missile System | Russia | √ | | | |
| 647 D20 Russian 152mm Towed Gun-Howitzer Russia √ | 646 | | | √ | | | |
| BM-24 (Kahyusha) Russian 240mm Multiple Rocket Launcher | | | | | \checkmark | | |
| 50R5 Vilpaz (S-390E) Russian Medium-Range Air Defense Missile System Russia | | | | √ | | | |
| 5650 SMA37 Sosna-R Russian Short-Range Air Defense Missile System Russia √ | | | | | | | |
| Section | | | | | √ | | |
| R-17 Elbrus (R-300 Scud B) Russian Short-Range Ballistic Missile Russia √ | | 9K52 Luna-M (FROG-7) Russian Medium-Range Artillery Rocket System | | ✓ | | | |
| EPU-4 Russian 14.5-mm Towed Anti-Aircraft Gun | | | | | | | |
| 654 D-44 Russian 85mm Towed Anti-Incry Cun Russia | | 7PI L4 Russian 14 5-mm Towed Anti-Aircraft Gun | | <u> </u> | √ | | |
| 655 ZPL-2 Russian 14 5mm Towed Anti-Aircraft Gun | | | | / | • | | |
| 656 ZIL-131 Russian Dx6 General Purnose Truck | | | | | | | |
| FTS-MI (Obvekt 65) Russian Tracked Amphibious Transport Vehicle Russia | | | | | | | |
| ASS ASS-17 Plamya Russian 30mm Automatic Grenade Launcher Russia ✓ | | | | | | | |
| 659 GP-30 Obuvka (Footwear) Russian 40mm Under-Barrel Grenade Launcher Russia ✓ 660 RG-5 Russian Revolving 40mm Grenade Launcher Russia ✓ 661 GM-94 Russian 43mm Pump-Action Grenade Launcher Russia ✓ 662 GP-25 Kostyro (Bonfire) Russian 40mm Under-Barrel Grenade Launcher Russia ✓ 663 Antonov An-2 (Colt) Russian Single-Engine Biplane Russia ✓ 664 Mil-2 (Hoplite) Russian Small Transport Helicopter Russia ✓ 665 Mil-Mil-6 (Hip-C) Russian Medium Transport Helicopter Russia ✓ 666 Tupolev 11-43 Russian Umanned Reconaniassance Aircraft Russia ✓ 667 Tupolev 11-43 Russian Immanned Reconaniassance Aircraft Russia ✓ 668 BK-10 Russian Fast Attack Craft (Assautt Boat) Russia ✓ 669 Ivan Green (Ivan Green Class) Russian Landing Ship Russia ✓ 670 BK-16 Raptor Russian Fast Attack Craft (Assautt Boat) Russia ✓ 671 3M54T (SS-N-27 Sizzler) Russian Attack Craft (Assautt Boat) Russia ✓ 672 3M54K (SS-N-27 Sizzler) Russian Attack Craft (Assautt Boat) Russia ✓ 673 Astrakhan (Buyan Class) Russian Corvette Russia ✓ 674 Grad Sviyazhsk (Buyan-M) Russian Corvette Russia ✓ 675 3M55 Oniks Russian Supersonic Anti-Ship Cruise Missile Russia ✓ 676 P-800 Yakhont Russian Supersonic Anti-Ship Cruise Missile Russia ✓ 677 P-800 Bolid Russian Supersonic Anti-Ship Cruise Missile Russia ✓ 678 Brahmos Russian Supersonic Cruise Missile Russia ✓ 679 Kh-61 Russian Supersonic Cruise Missile Russia ✓ 680 Okinks-M Russian Supersonic Cruise Missile Russia ✓ 681 Zala 421-12 Russian Ummanned Aerial Vehicle (UAV) Russia ✓ 682 Mohajer-6 Iranian ISTAR Ummanned Aerial Vehicle (UAV) Russia ✓ 683 Orian-10 Russian Immanned Aerial Vehicle (UAV) Russia ✓ 684 Admiral Gorshkov (Admiral Gorshkov (Class) Russian Frigate Russia ✓ 685 Poseidon Russian Immanned Herial Vehicle (UAV) Russia ✓ 686 Yury Dolgorukiy (Borei Class) Russian Nuclear-Powered Cruise Missile Submanine Russia ✓ 687 RSM-56 Bulava (SS-N-X-30) Russian Subman | | | | | ./ | | |
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| 682 Mohajer-6 Iranian ISTAR Unmanned Aerial Vehicle (UAV) Russia ✓ 683 Orlan-10 Russian Unmanned Aerial Vehicle (UAV) Russia ✓ 684 Admiral Gorshkov (Admiral Gorshkov Class) Russian Frigate Russia ✓ 685 Poseidon Russian Unmanned Underwater Vehicle Russia ✓ 686 Yury Dolgorukiy (Borei Class) Russian Nuclear-Powered Ballistic Missile Submarine Russia ✓ 687 RSM-56 Bulava (SS-NX-30) Russian Submarine-Launched Ballistic Missile Russia ✓ 688 Severodvinsk (Yesen Class) Russian Nuclear-Powered Cruise Missile Submarine Russia ✓ 689 C14 Class Russian Missile Boat Russia ✓ 690 Zubr Class (Pomornik)Russian Air-Cushion Landing Craft (LCAC) Russia ✓ 691 Nudelman-Rikhter NR-30 Russian 30mm Autocannon Russia ✓ 692 2A72 (ZPT99) Russian 30mm Autocannon Russia ✓ | | | | ✓ | | | |
| 683 Orlan-10 Russian Unmanned Aerial Vehicle (UAV) Russia ✓ 684 Admiral Gorshkov (Admiral Gorshkov Class) Russian Frigate Russia ✓ 685 Poseidon Russian Unmanned Underwater Vehicle Russia ✓ 686 Yury Dolgorukiy (Borei Class) Russian Nuclear-Powered Ballistic Missile Submarine Russia ✓ 687 RSM-56 Bulava (SS-NX-30) Russian Submarine-Launched Ballistic Missile Russia ✓ 688 Severodvinsk (Yesen Class) Russian Nuclear-Powered Cruise Missile Submarine Russia ✓ 689 C14 Class Russian Missile Boat Russia ✓ 690 Zubr Class (Pomornik)Russian Air-Cushion Landing Craft (LCAC) Russia ✓ 691 Nudelman-Rikhter NR-30 Russian 30mm Autocannon Russia ✓ 692 2A72 (ZPT99) Russian 30mm Autocannon Russia ✓ | | | | | | | |
| 684 Admiral Gorshkov (Admiral Gorshkov Class) Russian Frigate Russia ✓ 685 Poseidon Russian Unmanned Underwater Vehicle Russia ✓ 686 Yury Dolgorukiy (Borei Class) Russian Nuclear-Powered Ballistic Missile Submarine Russia ✓ 687 RSM-56 Bulava (SS-NX-30) Russian Submarine-Launched Ballistic Missile Russia ✓ 688 Severodvinsk (Yesen Class) Russian Nuclear-Powered Cruise Missile Submarine Russia ✓ 689 C14 Class Russian Missile Boat Russia ✓ 690 Zubr Class (Pomornik)Russian Air-Cushion Landing Craft (LCAC) Russia ✓ 691 Nudelman-Rikhter NR-30 Russian 30mm Autocannon Russia ✓ 692 2A72 (ZPT99) Russian 30mm Autocannon Russia ✓ | | | | | - | | |
| 685 Poseidon Russian Unmanned Underwater Vehicle Russia ✓ 686 Yury Dolgorukiy (Borei Class) Russian Nuclear-Powered Ballistic Missile Submarine Russia ✓ 687 RSM-56 Bulava (SS-NX-30) Russian Submarine-Launched Ballistic Missile Russia ✓ 688 Severodvinsk (Yesen Class) Russian Nuclear-Powered Cruise Missile Submarine Russia ✓ 689 C14 Class Russian Missile Boat Russia ✓ 690 Zubr Class (Pomornik)Russian Air-Cushion Landing Craft (LCAC) Russia ✓ 691 Nudelman-Rikhter NR-30 Russian 30mm Autocannon Russia ✓ 692 2A72 (ZPT99) Russian 30mm Autocannon Russia ✓ | | | | | ✓ | | |
| 686 Yury Dolgorukiy (Borei Class) Russian Nuclear-Powered Ballistic Missile Submarine Russia ✓ 687 RSM-56 Bulava (SS-NX-30) Russian Submarine-Launched Ballistic Missile Russia ✓ 688 Severodvinsk (Yesen Class) Russian Nuclear-Powered Cruise Missile Submarine Russia ✓ 689 C14 Class Russian Missile Boat Russia ✓ 690 Zubr Class (Pomornik)Russian Air-Cushion Landing Craft (LCAC) Russia ✓ 691 Nudelman-Rikhter NR-30 Russian 30mm Autocannon Russia ✓ 692 2A72 (ZPT99) Russian 30mm Autocannon Russia ✓ | | | | ✓ | | | |
| 687 RSM-56 Bulava (SS-NX-30) Russian Submarine-Launched Ballistic Missile Russia 688 Severodvinsk (Yesen Class) Russian Nuclear-Powered Cruise Missile Submarine Russia 689 C14 Class Russian Missile Boat Russia 690 Zubr Class (Pomornik)Russian Air-Cushion Landing Craft (LCAC) Russia 691 Nudelman-Rikhter NR-30 Russian 30mm Autocannon Russia 692 2A72 (ZPT99) Russian 30mm Autocannon Russia | | | | | ✓ | | |
| 688 Severodvinsk (Yesen Class) Russian Nuclear-Powered Cruise Missile Submarine Russia 689 C14 Class Russian Missile Boat Russia 690 Zubr Class (Pomornik)Russian Air-Cushion Landing Craft (LCAC) Russia 691 Nudelman-Rikhter NR-30 Russian 30mm Autocannon Russia 692 2A72 (ZPT99) Russian 30mm Autocannon Russia | | | | ✓ | | | |
| 689 C14 Class Russian Missile Boat Russia ✓ 690 Zubr Class (Pomornik)Russian Air-Cushion Landing Craft (LCAC) Russia ✓ 691 Nudelman-Rikhter NR-30 Russian 30mm Autocannon Russia ✓ 692 2A72 (ZPT99) Russian 30mm Autocannon Russia ✓ | | | | ✓ | | | |
| 690 Zubr Class (Pomornik)Russian Air-Cushion Landing Craft (LCAC) Russia ✓ 691 Nudelman-Rikhter NR-30 Russian 30mm Autocannon Russia ✓ 692 2A72 (ZPT99) Russian 30mm Autocannon Russia ✓ | | | | √ | | | |
| 691 Nudelman-Rikhter NR-30 Russian 30mm Autocannon Russia ✓ 692 2A72 (ZPT99) Russian 30mm Autocannon Russia ✓ | | | Russia | | \checkmark | | |
| 692 2A72 (ZPT99) Russian 30mm Autocannon Russia ✓ | | Zubr Class (Pomornik)Russian Air-Cushion Landing Craft (LCAC) | Russia | | | | |
| 692 2A72 (ZPT99) Russian 30mm Autocannon Russia ✓ | | Nudelman-Rikhter NR-30 Russian 30mm Autocannon | | | | | |
| | | 2A72 (ZPT99) Russian 30mm Autocannon | | | | | |
| | | | | √ | | | |

Equipment Added/Updated Tracker (continued)

| | Equipment Added/Opdated Tracker (Continued) | | | |
|------------|--|---------------------------|--------------|--------------|
| | December 2019 - February 2020 | | | |
| Number | Equipment Name | Country | Added | Updated |
| 694 | Buyan-M Class (Project 21631 Buyan-M) Russian Corvette | Russia | ✓ | |
| 695 | BK-16 Raptor Class Russian Fast Attack Craft | Russia | ✓ | |
| 696 | Lada-Class Russian Diesel-Electric Attack Submarine | Russia | ✓ | |
| 697 | UB-32 Russian 57mm Reusable, 32-salvo Rocket Pod | Russia | ✓ | |
| 698 | Mil Mi-24/Mi-35 Hind Russian Attack Helicopter | Russia | | √ |
| 699 | S-24 Russian Air-to-Surface Rocket | Russia | | \checkmark |
| 700 | 9M17 Fleyta (AT-2 Swatter) Russian Air-to-Surface Missile | Russia | √ | |
| 701 | 9M17 Fleyta (AT-2 Swatter) Russian Anti-Tank Guided Missile (ATGM) | Russia | √ | |
| 702 | Saiga-12 Russian 12-Gauge Shotgun | Russia | | \checkmark |
| 703 | Slava Člass Russian Guided Missile Čruiser | Russia | √ | |
| 704 | P-1000 Vulkan Russian Supersonic Cruise Missile | Russia | √ | |
| 705 | Steregushchiy Class (Project 20380 Class) Russian Corvette | Russia | √ | |
| 706 | KH-35 Russian Anti-Ship Cruise Missile | Russia | √ | |
| 707 | Yuri Ivanov Class (Project 18280 Class) Russian SIGINT Intelligence Collection Ship | Russia | √ | |
| 708 | Vishnya Class (Project 864) Russian Intelligence Collection Ship | Russia | √ | |
| 709 | BMD-1 Russian Airborne Amphibious Infantry Fighting Vehicle (IFV) | Russia | | √ |
| 710 | BMD-KShM Russian Command Post Vehicle | Russia | √ | |
| 711 | BMP-3K Russian Amphibious Tactical Command Infantry Fighting Vehicle (IFV) | Russia | | \checkmark |
| 712 | BRM-3K Rys Russian Amphibious Armored Reconnaissance Vehicle | Russia | √ | |
| 713 | Berkut-2 Russian Tactical Heated-Cab Snowmobile | Russia | <i>'</i> | |
| 714 | BTR-ZD Russian 23mm Self-Propelled Anti-Aircraft Gun | Russia | · | |
| 715 | BREM-D Russian Armored Maintenance-Recovery Vehicle | Russia | <i>→</i> | |
| 716 | Yantar Class Russian Intelligence Collection Ship | Russia | <i>'</i> | |
| 717 | T-72A Russian Main Battle Tank (MBT) | Russia | • | √ |
| 718 | T-72M Polish Main Battle Tank (MBT) | Russia | √ | • |
| 719 | 9M119 Svir (AT-11 Sniper) Russian Anti-Tank Guided Missile (ATGM) | Russia | → | |
| 720 | T-72B Russian Main Battle Tank (MBT) | Russia | • | √ |
| 721 | T-54 Russian Medium Tank | Russia | | → |
| 722 | Chieftain MK 3 (Export) Iranian Main Battle Tank (MBT) | Russia | | |
| 723 | Su-17 (Fitter) Russian Fighter-Bomber Aircraft | Russia | | → |
| 724 | STK 40 AGL Singaporean 40mm Automatic Grenade Launcher | Singapore | | → |
| 725 | Light Strike Vehicle Singapore 4x4 Light Utility Vehicle | Singapore | | |
| 726 | STK 40 AGL Singapore 40mm Automatic Grenade Launcher | Singapore | √ | • |
| 727 | Light Strike Vehicle Mark II Singapore 4x4 Light Utility Vehicle | Singapore | ✓ | |
| 728 | STK 50MG Singapore 12.7mm Heavy Machine Gun | Singapore | V ✓ | |
| 729 | STK 40 AGL Singapore 40mm Automatic Grenade Launcher | Singapore | • | √ |
| 730 | BOV-3 Slovenian 20mm Self-Propelled Anti-Aircraft Weapon System | Slovenia | | V ✓ |
| 731 | Armsel Striker (Protecta Bulldog) South African 12-Gauge Shotgun | South Africa | √ | V |
| 732 | G-5 South African 155mm Towed Gun Howitzer | South Africa | • | √ |
| 733 | G6 Rhino South African 155mm Self Propelled Howitzer | South Africa | | √ |
| 734 | RG-31 Nyala South African 4x4 Mine-Resistant Ambush Protected (MRAP) | South Africa | | ∨ ✓ |
| 735 | Milkor Mk-4 UBGL South African 40mm Single-Shot Grenade Launcher | South Africa | | |
| 736 | Milkor Mk-4 UBGL South African 40mm Single-Shot Grenade Launcher | South Africa | | ∨ |
| 737 | Milkor Mk-4 UBGL South African 40mm Single-Shot Grenade Launcher Milkor Mk-4 UBGL South African 40mm Single-Shot Grenade Launcher | South Africa South Africa | √ | V |
| 737 | K200 KIFV South Korean Infantry Fighting Vehicle (IFV) | South Korea | v | √ |
| 738 | URO VAMTAC ST5 BN3 Spanish 4x4 High-Mobility Tactical Utility Vehicle | | | ✓ |
| 739 | Carl Gustaf M3 MAAWS Swedish 84mm Man-Portable Anti-Tank Recoilless Rifle | Spain | √ | V |
| 740 | | Sweden | ✓ | |
| | Carl Gustaf M4 (M3-E1) Swedish 84mm Man-Portable Anti-Tank Recoilless Rifle | Sweden | ٧ | |
| 742 743 | AT-4 Swedish 84mm Single-Use Anti-Tank Recoilless Rifle | Sweden | | ✓ |
| 743 | HG-85 Swedish Time-Fused Fragmentation Grenade | Sweden | √ | |
| | BvS 10 (Viking) Swedish All-Terrain Armored Vehicle | Sweden | | |
| 745 | Bv206S Swedish Tracked Armoured Personnel Carrier (APC) | Sweden | √ | |
| 746 | Bv206A Swedish Amphibious Tracked Armored Ambulance | Sweden | √ | |
| 747 | Bv 206 Swedish Articulated All-Terrain Tracked Carrier | Sweden | √ | |
| 748 | BvS 10 (Viking) Swedish Amphibious Armored Personnel Carrier (APC) | Sweden | ✓ | |
| 749 | STRIX Swedish 120mm Terminal-Homing Mortar Projectile | Sweden | | √ |
| 750 | Soras 6 Swedish Sound Ranging System | Sweden | | ✓ |
| 751 | JAS 39 Gripen Swedish Multirole Fighter Aircraft | Sweden | √ | |
| 752 | RBS-15 Swedish Long-Range Air-to-Surface Missile | Sweden | √ | |
| 753 | RBS-15 Swedish Long-Range Anti-Ship Missile | Sweden | ✓ | |
| 754 | 37 Viggen Swedish Multirole Aircraft | Sweden | | √ |
| 755 | Carl Gustaf M1 Swedish 84mm Man-Portable Anti-Tank Recoilless Rifle | Sweden | | ✓ |
| 756 | Carl Gustaf M2 Swedish 84mm Man-Portable Anti-Tank Recoilless Rifle | Sweden | \checkmark | |

| | Worldwide Equipment Guide (WEG) | | | |
|---|---|------------|----------|--------------|
| Equipment Added/Updated Tracker (continued) | | | | |
| September - November 2019 | | | | |
| Number | Equipment Name | Country | Added | Updated |
| 757 | CB90 Swedish Fast Assault Craft | Sweden | √ | |
| 758 | RBS 70 Swedish Man-Portable Air Defense Missile System (MANPADS) | Sweden | √ | |
| 759 | Carl Gustaf M3 Swedish 84mm Man-Portable Anti-Tank Recoilless Rifle | Sweden | √ | |
| 760 | Cobra II Turkish 4x4 Amphibious Armored Personnel Carrier (APC) | Turkey | | √ |
| 761 | Nimr Hafeet Emirati 6x6 Armored Ambulance | UAE | √ | |
| 762 | Nirm Emirati 4x4 Light Utility Vehicle | UAE | √ | |
| 763 | CAR 817 Emirati 7.62mm Assault Rifle | UAE | ✓ | |
| 764 | CAR 816 Emirati 5.56mm Assault Rifle | UAE | √ | |
| 765 | Nirm II Emirati 4x4 Light Armored Vehicle | UAE | √ | |
| 766 | Nimr Hafeet 620 Emirati 6x6 Light Utility Truck | UAE | ✓ | |
| 767 | Nimr Hafeet APC Emirati 6x6 Armored Personnel Carrier (APC) | UAE | √ | |
| 768 | BMP-3 UAE Amphibious Infantry Fighting Vehicle (IFV) | UAE | | √ |
| 769 | 1L220-U Ukrainian Artillery Locating Radar | Ukraine | | ✓ |
| 770 | Remington MSR American 7.62mm Sniper Rifle | USA | √ | |
| 771 | TMA-3 Yugoslavian Anti-Tank Blast Mine | Yugoslavia | | √ |
| 772 | TMM-1 Yugoslavian Anti-Tank Blast Mine | Yugoslavia | | ✓ |
| 773 | PROM-1 Yugoslavian Anti-Personnel Mine | Yugoslavia | | |
| 774 | M60 Former Yugoslavian 82mm Recoilless Gun | Yugoslavia | | \checkmark |
| 775 | M79 Former Yugoslavian 82mm Recoilless Gun | Yugoslavia | | ✓ |
| 776 | M79 Osa Former Yugoslavian 90mm Anti-Tank Rocket Launcher | Yugoslavia | | \checkmark |
| 777 | Zastava M84 Yugoslavian 7.62mm General-Purpose Machine Gun | Yugoslavia | | \checkmark |

The Worldwide Equipment Guide (WEG) was developed to support the TC 7-100 series and all OPFOR portrayal in training simulations (constructive, virtual, live, and gaming). The equipment portrayed in the WEG represents military systems, variants, and upgrades that U.S. forces may encounter now and in the foreseeable future. The authors continually analyze real-world developments, capabilities, and trends to guarantee that the OPFOR remains relevant. The WEG is no longer published in a PDF format annually, and has instead migrated to an online database that can be found at: https://odin.tradoc.army.mil/WEG. The online WEG allows users to print individual WEG sheets, groups of equipment types, or the entire WEG. Additionally, in the upcoming months an offline version of the WEG will be available, which will allow users to download updates as need, but still allow them to access the WEG without the internet via their computers, tablets, or phones. To request equipment be added to the WEG, email the TRADOC G-2 OE & Threat Analysis Directorate WEG Analyst Richard Garcia at Richard.l.garcia.ctr@mail.mil.