An intensifying demographic shift, the rise of chronic diseases, patients turning into consumers, the pace of innovation, and broader access to medical imaging across the globe lead to a constantly growing number of examinations, including MRI. At the same time, this development raises central questions for you as healthcare- and us as
equipment-provider alike: How to manage volume growth with limited resources? How to control costs without compromising quality of care? How to expand services in either established or growing markets? How to continuously strive for clinical excellence in the interest of patients despite economic restraints?

Siemens MR provides answers to these questions by offering a unique combination of MRI technology, software and clinical applications, supporting you in turning these challenges into opportunities.
Uncover what lies behind Siemens’ leading MRI technology.
MAGNETOM Skyra
Maximize 3T.
Healthcare providers are under pressure to deliver higher quality care at lower cost. As MRI continues to prove its diagnostic value, more scans are being performed, and in new clinical fields.\(^1\) However, global reimbursements for MRI procedures continue to fall; in the USA, payments for some exams have dropped by 34\(^\%\)\(^2\) since 2013.\(^3\) MAGNETOM Skyra is 3T MRI designed to turn these challenges into opportunities. It accelerates exams for increased scanner utilization, standardizes and streamlines procedures, and serves new and growing patient populations. Maximize 3T with MAGNETOM Skyra.
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MAGNETOM Skyra at a glance
Maximize 3T.

Less than 1 minute exam-time variation
• Routine tasks automated with DotGO workflow
• Time savings for technicians

Up to 40% faster MRI exams
• 5-minute, push-button brain exam with GOBrain
• Rapid image acquisition with Tim 4G coil technology

Serve growing patient populations
• Expand body MRI services
• Add an additional layer of pixel-based diagnostic information with MyoMaps
MAGNETOM Skyra at a glance

Maximize 3T.

- Complete, quiet neurological and orthopedic examinations
- Greater patient acceptance, fewer rescans

Up to 97% reduction in sound pressure\(^6\)

- 22% lower energy consumption\(^6\)

Push the limits with advanced neuro MRI

- Introduce advanced DTI and BOLD imaging for pre-surgical planning with Simultaneous Multi-Slice (SMS)
- Reduce DWI scan times by approx. 40%\(^7\)

- Fast, easy installation and a small system footprint
- Best-in-class energy efficiency, Zero Helium boil-off
Deliver exceptional quality and speed

Make the most of your MRI scanner and improve cost-effectiveness by accelerating scans for each and every patient. GOBrain enables clinically validated push-button brain examinations in five minutes. This is made possible by Tim 4G’s ultra-high coil element density, delivering exceptional quality and speed for efficient processes, day-in and day-out.
Deliver exceptional quality and speed

with GOBrain

Flexibility. Accuracy. Speed.
Tim 4G integrated coil technology features up to 204 channels* that can be connected and up to 128 independent RF channels that can be used simultaneously in one single scan and in one single FOV, each generating an independent partial image. This enables efficient, effective scanning without repositioning coils or patients.

An exceptional signal-to-noise ratio (SNR) means superior image quality and accuracy for diagnostics. Additionally, advanced simultaneous parallel acquisition accelerates exams.

* Channels (coil elements) that can be connected simultaneously.
GOBrain is clinically validated for the six most common neuro examinations. It potentially doubles the number of brain scans to 8-10 per day due to shortened scan times.

GOBrain enables brain exams with multiple orientations and all relevant contrasts. Reduce the need for sedation and rescans to cut the cost per scan.

5-minute exams with GOBrain
Supported by the latest Tim 4G integrated coil technology, GOBrain enables fast, clinically validated brain examinations with multiple orientations, and all relevant contrasts – including diffusion and T2*. By accelerating exams, GOBrain increases patient throughput and helps improve diagnostic processes for neurological patients. It is ideal for patients who find remaining immobile for an extended time difficult, and helps minimize motion-related artifacts. And by maximizing scanner utilization, GOBrain reduces the cost per scan.
NEUROLOGY: By leveraging the latest Tim 4G technology, GOBrain enables fast, clinically validated brain examinations, enhancing productivity.
Massachusetts General Hospital, Boston, USA
Brain exam on MAGNETOM Skyra with GOBrain: multiple orientations and all relevant contrasts in 4:59 minutes.
NEUROLOGY: Tim 4G delivers benefits in both neurological research and clinical routine – thanks to increased SNR and a new architecture.

MRI Medical Radiological Institute, Zurich, Switzerland
**PEDIATRICS:** Ultra high-density, light-weight Tim 4G coils enable faster examinations, helping reduce the need for sedation and rescans in pediatrics.™

University Hospital KISPI Beider UKB, Basel, Switzerland
“The Head/Neck 64 reveals previously hard-to-recognize, but pertinent anatomical and disease-related details for a spectrum of pathologies within the brain, inner ear, orbits, skull base and neck, as well as the cervical spinal cord. This leads to improved insights into neuroanatomy relevant to an extended range of diseases. All this can be achieved, fortunately, at advanced speed and resolution.”

Prof. Bernhard Schuknecht, MD
Diagnostic, Vascular and Interventional Neuroradiology
MRI Medical Radiological Institute, Zurich, Switzerland
WHOLE BODY: Superior-quality imaging from meters to microns. Cover the entire body up to 205 cm, with enough resolution to see small details.
ORTHOPEDICS: Tim 4G’s ultra high-density coils for MSK imaging maximize SNR and anatomic coverage.

Top left: Radiologisches Zentrum Muenchen-Pasing, Munich, Germany
“Every day, we experience progress in diagnostics achieved with MAGNETOM Skyra. It’s a pleasure to work with this system. MAGNETOM Skyra is robust, efficient and reliable.”

Christoph Tillmanns, Cardiologist, Head of Cardiology, Diagnostikum Berlin, Berlin, Germany

**ANGIOGRAPHY:** Tim 4G’s new ultra high-density coils and 205 cm scan range allow you to perform high-resolution whole-body angiography easily and without repositioning the patient. And, with DotGO’s on-board guidance, you can move through the scan with ease.

Imaging Science Institute Charité, Berlin, Germany
BODY: Tim 4G offers high-channel body imaging thanks to the combination of ultra high-density body and spine coils. Moreover, our trendsetting applications help you expand your service lines in MRI.

University Hospital IKRN, Mannheim, Germany

CARDIOLOGY: Cardiac examinations benefit from high SNR and increased parallel imaging factors in any direction to achieve ultra-fast acquisition times, from morphology, function, and perfusion, to viability.

Diagnostikum Berlin, Berlin, Germany
**PROSTATE MRI:** With the high-density spine and body coils alone or in combination with an endorectal coil, Tim 4G delivers excellent flexibility in multiparametric imaging of the prostate in terms of morphology, physiology and function.

St. Andrews Hospital, Adelaide, Australia
Go for consistent results, efficiently

Tailor and manage your protocols in line with your specific needs, improve flexibility, and deliver high-quality care, consistently. DotGO\textsuperscript{10} keeps your processes running on time with intuitive protocol management, user guidance, and smart automation techniques – integrated into a single user interface. Leverage powerful DotGO solutions to ensure efficient workflows and consistent image quality – for all patients and technicians.
Go for consistent results, efficiently

with DotGO workflow

Flexibility
With one central user interface to configure any protocol and flexibly create your exam strategies, DotGO empowers you to define a higher standard of care and service for more patients and referrers. And it lets you adjust strategies on-the-fly to accommodate a multitude of clinical requirements, individual patient needs and changing scenarios.

90% of MRI exams covered by Dot engines

80% better usability in MRI exam configuration

Less than 1 minute exam-time variation

90% of MRI exams covered by Dot engines

80% better usability in MRI exam configuration
“The key feature of the new DotGO is the ability to quickly see your entire protocol on one page, as opposed to having to drill down multiple levels to see what your protocols actually are. It gives us a great overview of the protocol. You know exactly what’s in there at any given time just by glancing at it.”

Anthony Pavone
Chief MRI Technologist
Zwanger-Pesiri Radiology, New York, USA

Consistency
DotGO enables you to standardize your MRI operations with a comprehensive guidance system, predefined strategies and Dot engines that create reproducible, high-quality outcomes every time. This significantly reduces the need for rescans and allows any technician to perform any exam with consistent results – even for complex cardiac imaging.

Efficiency
Thanks to DotGO’s automated functionalities, MAGNETOM Skyra dramatically improves the efficiency of your MRI workflow. Auto-slice positioning, auto-voice commands and auto-organ labeling reduce the level of interaction required from technicians, freeing them up for other important tasks, as well as standardizing exam times and lowering costs.
**Dot Cockpit:**  
A central user interface enables fast and intuitive protocol configuration and management. Dot Cockpit delivers up to 80% greater usability.

**Drag & drop from the sidebar in Editor**
Multiple User Trees

Explorer and Editor in one interface
Easy navigation and shortcuts

Build as many strategies as you need

Edit protocols instantly
Zoom in and out to conveniently display protocols

Create a strategy with one click (drag & drop)
Dynamic context search, highlighting results
“Dot engines really enhance our throughput in day-to-day scanning, but also improve quality reproducibility. Dot helps technicians and radiologists produce excellent images.”

Anthony Pavone
Chief MRI Technologist
Zwanger-Pesiri Radiology, New York, USA
“The number of failed examinations has been drastically reduced by the Dot engines, and the angiographies have become better. Everything is simply much more standardized now.”

Prof. Thomas Vogl
Medical Director of the Institute for Diagnostic and Interventional Radiology of the University Hospital Frankfurt, Germany
Spokesperson of the Frankfurt Klinikallianz

Large Joint Dot Engine
Increased consistency for all large joints – hip, shoulder, and knee.

Abdomen Dot Engine
Optimized bolus timing for dynamic liver examinations.

Angio Dot Engine
Optimally timed contrast images with interactive bolus timing.

Tim CT Angio Dot Engine and Tim CT Onco Dot Engine
A unique combination of Siemens’ technologies, helping you achieve one smooth Field of View (FoV) using the Continuous Table Move.
Expand your MRI services

Serve new and growing patient populations with trendsetting applications. Overcome the challenges of body MRI with FREEZEit and offer free-breathing examinations to patients with limited breath hold capabilities. Further extend your MRI services with Simultaneous Multi-Slice (SMS)7, a paradigm shift in MR imaging. With SMS, it is now possible to significantly accelerate 2D exams and perform advanced neurological examinations on a routine basis.
Expand your MRI services
with Simultaneous Multi-Slice

Reduce DWI scan times by approx. 40%\(^7\)

Serve growing patient populations

Push the limits with advanced neuro MRI

More precision
Simultaneous Multi-Slice imaging is a paradigm shift in MRI acquisition. It dramatically accelerates advanced neuro examinations for faster diffusion and BOLD imaging, to help make these advanced techniques more suitable for clinical routine imaging.

More applications
Siemens offers the broadest portfolio of MR applications on the market. With MAGNETOM Skyra and trendsetting applications, you can deliver a comprehensive and unique range of 3T services seamlessly integrated with DotGO. As a result, you can expand and differentiate your offering, making even the most challenging of exams part of your clinical routine.
More than 70% of research performed using 3T systems worldwide is conducted on a Siemens MAGNETOM 3T scanner.\textsuperscript{13}

“The images are exceptional, and the handling of the system and the patient will make MRI diagnostics much more efficient in the future. This opens up new opportunities for further integration of cutting-edge scientific developments into clinical routine.”\textsuperscript{9}

Prof. Stefan Schönberg, MD
Director, Institute for Clinical Radiology and Nuclear Medicine
University Medical Center Mannheim, Germany

More patients
Trendsetting applications help you open up your service offering to more patient groups. So you can accommodate a larger variety of medical conditions as well as diverse body shapes and sizes. Furthermore, shorter breath holds and reduced scan times mean less need for sedation, fewer rescans, and greater patient satisfaction.

More research
Over 70%\textsuperscript{13} of 3T MRI research worldwide is conducted on Siemens equipment. With good reason – because MAGNETOM delivers a powerful system coupled with leading-edge applications and excellent support services. Moreover, Siemens actively engages with the research community, helping you add value to your work.
Conventional
TA 2:20 min
NYU School of Medicine,
New York, USA

SMS 2
TA 1:21 min
NYU School of Medicine,
New York, USA

Paradigm: Finger tapping (baseline), tongue movement (active), same threshold level on all images.

Diffusion
b-value 0

Diffusion
b-value 1000

Conventional BOLD
TR 3200 (60 measurements)
Simultaneous Multi-Slice (SMS): DWI is an important part of any comprehensive MRI brain scan. SMS can reduce scan times without compromising image quality. As a result, it enhances scanner efficiency, and increases flexibility for patient scheduling.

“Simultaneous Multi-Slice [...] may represent one of the major innovations this decade for MR with widespread clinical utility.”

Val M. Runge, MD
Editor-in-Chief, *Investigative Radiology*
Visiting Professor, University Hospital, Zurich
FREEZEit: Take abdominal imaging to the next level with our embrace motion technology. MRI exams of the liver have become increasingly difficult due to contrast timing challenges and breathing motion. FREEZEit, combining TWIST-VIBE and StarVIBE, makes MRI faster and more robust than ever, overcoming previous limitations and significantly pushing the boundaries of what’s possible.

StarVIBE: Enable free-breathing and contrast-enhanced exams for a range of patient groups thanks to StarVIBE’s effectiveness against motion artifacts.
Mount Sinai Hospital, New York, USA

Time point after bolus: 2 seconds
4 seconds
**LiverLab:** Monitor the growing number of liver disease cases. LiverLab supports quantitative, non-invasive liver evaluation.

ZEMODI, Bremen, Germany

**TWIST-VIBE:** Benefit from high temporal and high spatial resolution so that you always get the right contrast in dynamic examinations.

University Hospital IKRN, Mannheim, Germany
CAIPRINHA: Address patients with limited breath-hold capacity with Siemens’ unique CAIPRINHA application and ultra-short breath holds – standard with your MAGNETOM Skyra.

Calvary John James Hospital, Deakin, Australia
ZOOMit: Zoom into your image to view the smallest details, improve diagnostics and expand research possibilities with ZOOMit, powered by TimTX TrueShape.
**Advanced WARP:** Serve rapidly growing patient populations that have artificial joints. The benefits are substantial: infections can be diagnosed earlier and there is a significant gain in image quality for any MR indication.

University of Texas Medical Branch, Galveston, USA

**MyoMaps:** Benefit from inline myocardial quantification, detect normally missed global, diffuse, myocardial pathologies (T1 Map) and better depict cardiac edema (T2 Map) with MyoMaps, based on Siemens’ unique HeartFreeze.

Diagnostikum Berlin, Berlin, Germany
RESOLVE: Experience outstanding diagnostic performance with sharp, high-resolution DWI and DTI of the brain and spine.
Maximized patient comfort
A key element of Siemens MRI Life Design is putting the patient first. MAGNETOM Skyra’s 70 cm open bore allows 30 cm of space above the patient’s face, improving comfort. The shortest magnets in the industry enable more exams to be performed with the head outside the bore. These and other leading-edge features increase satisfaction and allow you to serve more patient groups.

Quiet Suite
Conduct complete, quiet exams for neurology and orthopedics, with up to 97% reduction in sound pressure. Quiet Suite minimizes the need for sedation of certain groups of patients such as children and the elderly – without compromising image quality. Because imaging is to be seen, not heard.
Maximized workflow efficiency
Life Design helps make your MRI operations more efficient and economical. The Tim Dockable Table helps you streamline exam preparation, optimizing your department workflow. And the central syngo user interface offers a consistent look and feel at every scanner, helping staff perform tasks faster and enhance their productivity.

Minimized lifecycle costs
Siemens scanners are easy and efficient to install and have low space requirements. Low power and cooling requirements contribute to industry-leading energy efficiency – with 22% lower power consumption. Combined with Zero Helium boil-off, this reduces life cycle costs and improves your ecological footprint.

Tim coil technology: Tim 4G technology accelerates patient set-up and provides a high level of patient comfort.

“That 70 cm bore makes a world of difference. And the new Skyra magnet’s positioning of the surface coils is a very quick, easy process – very comfortable for the patients.”
Steven Mendelsohn, MD
Director, Zwanger-Pesiri Radiology
Long Island, NY, USA
Save up to 22% in energy costs

Setting the standard in energy efficiency

Founded in 1959, COCIR is a non-profit organization that represents among others the medical imaging industry. COCIR has identified energy consumption during product lifecycle use phase as the key environmental factor for medical imaging devices. The COCIR SRI methodology provides a common framework to measure and compare the energy consumption of MRI systems. Siemens MRI systems, such as MAGNETOM Skyra, integrate a number of innovative, power-saving, and resource-conserving technologies to reduce energy consumption.

Optimize your total cost of ownership (TCO)
Short installation time
Thanks to its compact system design, MAGNETOM Skyra has a typical installation time of less than 7 working days, helping reduce costs from the very start.

Small footprint
Minimum total space requirement: less than 31m² for magnet, electronics, and console room. The system complies with the standard ceiling height of 240 cm. An integrated water cooling cabinet eliminates the need for dedicated cooling of the entire equipment room.

Zero Helium boil-off³
According to the US Geological Survey, the estimated price paid by private buyers for helium has risen by 48% from 4.15 US dollars per cubic meter in 2008. In 1995, it was 1.80 US dollars.⁴ With its Zero Helium boil-off technology, Siemens Healthineers is eliminating one of the fastest rising costs in MRI operations.

Eco-Chiller / Optimized Separator
Lower power consumption due to automatic adaptation to the required cooling demands, e.g., dedicated night and day modes.

GREEN Cooling Option
Chiller energy consumption further reduced by up to 50% with this passive extension module of the Eco-Chiller. Depending on the surrounding temperature, cooling takes place exclusively via the Free Cooling unit (not displayed in figure on the left).

Power-saving technology
Intelligent technology for higher energy efficiency: optimized sequences for less gradient switching, and self-adapting components, that switch off automatically when not needed.
Service and exchange

Siemens’ service offerings ensure that you stay at the leading edge of 3T technology throughout the entire MRI lifecycle – from installation, to operation, to upgrades, to ongoing support. Moreover, our globally active communication platforms and communities – such as MAGNETOM World – keep you up to speed on the world of MRI and enable you to share your ideas and experiences with your peers.
Service and exchange

Comprehensive services

Siemens Utilization Management
Make the most of your equipment's potential

Evolve Program
Stay in the future

Proven upgrade paths
Future-proof your investment

teamplay
Make fast and well-informed decisions

Siemens Guardian Program™
Providing proactive service with real-time monitoring

LifeNet
Comprehensive Fleet Management – More control, less hassle

Siemens Utilization Management
Make the most of your MRI scanner and achieve maximum transparency. Siemens Utilization Management allows you to monitor KPIs and benchmark your system against other Siemens’ MRI machines at any facility or organization under a comparable contract. So you can keep track of your MRI performance, and reap the maximum reward from your scanner.

Siemens Guardian Program™
By continuously monitoring systems for possible deviations from current norms, the Siemens Guardian Program helps maximize system availability, makes it easy to detect and resolve system errors, prevents downtime, and avoids the rescheduling that disrupts patient care.
Proven upgrade paths
With MAGNETOM scanners, taking your MRI system to the next level is simplicity itself, thanks to clearly defined upgrade paths. In fact, Siemens has built an entire organization to help customers truly maximize their system life – and in turn, to increase their return on investment.

Evolve Program
An investment protection program to enable you to cost-effectively keep your imaging system technology current, and extend the life of your equipment. Ensure your imaging system uses the latest software versions, and cutting-edge applications – for more accurate diagnostics and greater speed.

LifeNet
More control and less hassle with a personalized control center safeguarding your fleet’s productivity. This web-based portal bundles all service-related activities, documents, and reports in one comprehensive online resource available 24/7, whenever it is needed. LifeNet is provided at no charge to all Siemens Healthcare customers.

teamplay
teamplay grants instant access to statistics from your imaging device fleet. Its multi-vendor support empowers you to identify improvement potential on all levels of execution. teamplay provides an easy-to-grasp overview of an institution’s imaging workflow for enhancing efficiency, competitiveness and quality of care in one intuitive Plug & Play solution.
Service and exchange

Peer-to-peer information

**MAGNETOM World**
Siemens’ global MR community offers peer-to-peer support and information. Radiologists, cardiologists, technologists and physicists have all contributed with publications, presentations, training documents, case studies and more – all freely available to you via this unique network. Plus, the bi-annual MAGNETOM World Summit is the ideal opportunity to share and exchange ideas.

**MAGNETOM Flash**
MAGNETOM Flash is the MR customer magazine. Published quarterly, it features up-to-date clinical case studies, application tips, as well as technical and product information relevant to you. All content is carefully compiled by experts to meet the needs of today’s MRI users in both clinical and research scenarios. In fact, 98.5% of readers report that MAGNETOM Flash is clinically relevant.
On MAGNETOM Flash: “An excellent and useful combination of technological and clinical articles that both keep one up to date with advances in MRI and provide practical assistance for day to day practice – good and interesting learning material.”

Mark Lourensz, St Vincent’s Hospital Fitzroy, Victoria, Australia

Dot Exchange
Part of the Siemens Healthcare User Forum, Dot Exchange connects Dot users, enabling them to share their clinical experience of working with the system. By registering on www.siemens.com/dot-exchange, you can upload and discuss protocol files and engage in dialog with peers. Plus, you can access a host of interesting features and articles, making sure you are the first to hear about the latest developments in MRI.

IDEA
IDEA is an open development platform supporting the largest and most active MR research community in the world. It brings users from across the globe together and fosters innovation in the field of MRI. Members collaborate online at www.mr-idea.com.
MAGNETOM Skyra
Technical specifications

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<tr>
<th>Specification</th>
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<tr>
<td>Field strength</td>
<td>3 Tesla</td>
</tr>
<tr>
<td>Bore size</td>
<td>70 cm Open Bore design</td>
</tr>
<tr>
<td>System length*</td>
<td>173 cm</td>
</tr>
<tr>
<td>System weight (in operation)*</td>
<td>7.3 tons</td>
</tr>
<tr>
<td>Minimum room size*</td>
<td>31 m²</td>
</tr>
<tr>
<td>Maximum number of channels**</td>
<td>204</td>
</tr>
<tr>
<td>Number of independent receiver channels that can be used simultaneously in one single scan and in one single FOV, each generating an independent partial image</td>
<td>24, 48, 64, 128</td>
</tr>
<tr>
<td>Gradient strength</td>
<td>XQ Gradients (45 mT/m @ 200 T/m/s)</td>
</tr>
<tr>
<td>Helium consumption</td>
<td>Zero Helium boil-off technology</td>
</tr>
</tbody>
</table>

* Minimum total space requirement for magnet, electronics, and console room
** Channels (coil elements) that can be connected simultaneously
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Note: Any technical data contained in this document may vary within defined tolerances. Original images always lose a certain amount of detail when reproduced.

For accessories, please visit: siemens.com/medical-accessories

2. 34% on average for the top five MRI procedures by volume.
4. Zhongshang Hospital Fudan University, CN, Abdomen Dot Engine Workflow Study.
5. Based on the scan time difference between a 30-channel set-up and an 18-channel set-up with otherwise identical parameters and same SNR.
6. Data on file; results may vary.
8. MR scanning has not been established as safe for imaging fetuses and infants under two years of age. The responsible physician must evaluate the benefit of the MRI examination in comparison to other imaging procedures.
9. The statements by Siemens’ customers described herein are based on results that were achieved in the customer’s unique setting. Since there is no “typical” hospital and many variables exist (e.g., hospital size, case mix, level of IT adoption) there can be no guarantee that other customers will achieve the same results.
10. Dot Cockpit Usability Study (2013) for Dot and non-Dot users.
13. Search hits in Google Scholar for sum of product name permutations in 16 articles acknowledging the use of 3T MRI.
14. MR imaging of patients with metallic implants brings specific risks. However, certain implants are approved by the governing regulatory bodies to be MR conditionally safe. For such implants, the previously mentioned warning may not be applicable. Please contact the implant manufacturer for the specific conditional information. The conditions for MR safety are the responsibility of the implant manufacturer, not of Siemens.
15. Average European energy consumption in non-productive modes, with a daily energy average of 209.57 kWh. Based on a survey of 454 sold units as reported in the 2013 COCIR SRI Status report published in 2014. (http://www.cocir.org/index.php?id=46). Since many variables impact power consumption (e.g. sequences used for scanning and sequence parameters, scan time), there can be no guarantee that each customer will achieve the same values. All values are typical values, applicable for 400V/50Hz. Consumption for optional separator pump and other options not included.
16. Prerequisites include: wireless connection to clinical network, meeting recommended minimum hardware requirements, and adherence to local data security regulations.
17. The product/feature (mentioned herein) is not commercially available. Due to regulatory reasons its future availability cannot be guaranteed.