



The MyChild6 Patient Protection System by McRoberts Technologies

About McRoberts Technologies

- McTech was founded in 1992 for the express purpose of bringing life-safety technologies to the healthcare industry. It was a subsidiary of McRoberts Protective Agency, which was the oldest security company in America.
- McTech is a certified Woman-Owned Small Business and Woman Business Enterprise.
- McTech is innovative. Its solutions are risk-specific and leverage the most appropriate technology for the use case combined with customized and user-friendly software.



About the MyChild6 Patient Protection System

- **Created by security and nursing professionals**
 - MyChild meets the specific risk of infant and pediatric abduction while integrating with clinical practices.
 - Designed to required standards, MyChild can be customized by department and user preference through configurations.
 - The software is visual, intuitive, flexible and does not require advanced training.
 - MyChild6 is web-based. It can reside in the cloud, on a VM, or a local server and can be accessed from desktop computers, laptops, tablets, and mobile devices for bedside and/or mobile transactions.
 - MyChild leverages Artificial Intelligence. Warnings self-clear when the condition that gives rise to them no longer exists. The system automatically emails system alarms to McRoberts Tech Support and to designated hospital personnel. The recommended number of tags you need in inventory at any time self-calculates based on the number of patients enrolled over the last three months. This number is shown relative to the number of tags currently in inventory so that you can see at a glance if you need to order more tags.
 - Alarms can be sent via SMS text to designated staff.
 - Customizable reports provide analytical data at no additional cost. Reports can be automated.
 - Software subscription ensures updates to the latest version.
- **The MyChild RTLS architecture is flexible and customized**
 - The choice of infrastructure for real-time locating (RTLS) is yours. Choose from wired and/or wireless receivers for patient tracking, patient location and tag monitoring. Receivers are placed approximately 50 feet apart.
 - Both architectures are flexible and expandable to accommodate any size facility and/or multiple locations.



- **Benefits of the MyChild RTLS architecture**

- Continuous Tag Supervision – MyChild tummy tags transmit Tag Location Messages (TLMs) every 16 seconds (or about 5,000 times per day) and cut-band tags transit TLMs every 20 seconds. These messages include tag location, ID number and battery status. If the system misses a signal(s) from a tag or if it receives a low-battery message, an alarm message appears in the MyChild software.
- Precise location – MyChild shows a tag's location on-demand. Tag locations are displayed graphically on the floorplan on the user interface. The location is updated as the tag moves.

MyChild System Functionality

Supervised Tags

Wireless Receivers receive tag information via RFID and transmit that information to the server via the hospital's standard Wi-Fi.

Wired Receivers receive tag information via RFID and transmit that information to the server via RS-485.

Login to MyChild

The MyChild application is browser-based and can be accessed on workstations, tablets, or mobile devices.

Units/Zones

MyChild can be configured to separate areas/units/floors into separate zones.

Perimeter Protection

Door or Elevators Controllers function independently and continue to work in the event of a network outage.

Unit lockdown functionality is available on all McRoberts solutions.

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- **Hard or soft unit perimeter protection**

- Hard Perimeter Protection – Door controllers cause doors to lock and elevator controllers to disable elevators when a tag is in proximity.
 - MyChild tags use Low-Frequency (LF) RFID to initiate a transaction with a door or elevator controller “on-demand” when they enter a door or elevator field. This transaction provides direct and immediate operational control of door locks and elevator door controls. No communication through the server is necessary.
 - MyChild tags are dedicated to a highly reliable, Low-frequency (LF) RFID wake-up field (307kh) and transmit for tag presence and alarming on a dedicated, long-range Ultra-High Frequency (UHF) RFID frequency (433Mh). The dual-frequency “handshake” validates that the signal received is a tag is in the RF field.
 - Door and elevator controller antenna locations and field sizes are adjustable to allow for optimal functionality.

- A system with door controllers generates alarms for TAG NEAR CLOSED DOOR, DOOR AJAR, UNAUTHORIZED PATIENT EXIT and TAG NEAR OPEN DOOR.
- Door and elevator controllers are fail secure. They operate in stand-alone mode and still function during a network failure.
- MyChild can integrate with other systems such as CCTV and access control.
- A hard perimeter is often preferred by users of tummy tags because tummy tags have no tamper detection mechanism.
- A system with hard perimeter protection and no RTLS (a Basic System) is also an option.
- Soft Perimeter Protection – Alarm if and when a tag is at an egress point or outside the unit.
 - MyChild software can be programmed to generate an alarm when a tag is in a tag detector field and/or if receivers outside the unit pick up a tag's signal.
 - Sounders and strobe lights inside the unit can provide immediate notification of unauthorized egress.
 - A soft perimeter is often preferred by users of cut-band tags where doors are already locked. Elevator controllers and door controllers that lock doors at stairwells are recommended with this option.

The MyChild6 Application is Browser Based

- Your application will be hosted by Amazon Web Services (AWS) if in the cloud
 - Wireless receivers are programmed to send info to specific DNS address
 - High Availability
 - Auto-scaling using containerization
 - Security
 - Vulnerability scans by AWS Cloudwatch
 - Rapid database restoration in the event of a disaster
 - Rapid application updates via blue/green deployments
- Users can access MyChild6 from any device
- One never-sleep console per unit must be designated to keep a MyChild session open at all times. You choose the number of never-sleep consoles.



Software is provided on a Subscription Basis

- Annual fee based on number of devices
- Fee covers license and software maintenance
- Fee covers software updates, improvements, bug fixes and performance boosting
- You will be notified through the software about upcoming updates and what they include

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The Dashboard

The dashboard provides a comprehensive overview of the system's status. Key features highlighted include:

- Tag inventory** calculates how many tags you need.
- Patient census** shows the status of all patients.
- Unaccepted alarms** at a glance.
- Quick links to Help Desk** and **Quick links to Resources**.

The dashboard includes sections for TAG SUMMARY, PATIENT SUMMARY, UNACCEPTED ALARMS, CONTACT US, and RESOURCES.

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Patient Directory

The Patient Directory shows all patients with their pertinent information and locations. The Patient Directory can be viewed in either card view or list view. Click the Patient Tab to view the Patient Directory.

The Patient Directory in card view displays patient information and actions for each patient. The cards are organized into columns, with the first four columns showing patient details and the fifth column showing actions for a specific tag (TAG: F000CC).

Each card displays the following information:

- UNIT: PEDS
- ROOM: 001
- LAST SEEN: 10/5/2022, 12:00:00 PM
- LOCATION: DEFAULTMCPLUG
- TAG: F000CC
- Functions button

The fifth column shows actions for TAG: F000CC:

- BYPASS
- SUSPEND TAMPER
- UNENROLL
- LOCATE

Patient Directory in card view

MyChild

Welcome, admin@mychildcloud.com

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Patient Directory

+ Enroll Patient

First Name	Middle Name	Last Name	Status	Flight Risk	Tag	Last Seen Locati...	Unit	Floor	Roo...	Sex	Date Enrolled	Edit	Notes	Locate	Unenroll	Bypass	Suspend Tamper
Adam	Jackson	Tarpy	Active	<input type="checkbox"/>	F1194A	DefaultController	DefaultUnit	DefaultFloor		Male	03/16/2023 12:18 PM						
Jake	From	StateFarm	Active	<input type="checkbox"/>	E11BA6	DefaultController	DefaultUnit	DefaultFloor		Male	03/16/2023 12:17 PM						
David	Joe	Johnson	Active	<input type="checkbox"/>	E1BAF9	DefaultController	DefaultUnit	DefaultFloor		Male	03/16/2023 12:17 PM						
Amanda	Mitchell	IAmALongLast...	Active	<input type="checkbox"/>	E12FFE	DefaultController	DefaultUnit	DefaultFloor	1	Female	03/16/2023 11:40 AM						

1 - 4 of 4 items

Enroll Patient

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Patient Directory in list view

Patient Locate

Select the patient you want to locate and select Locate. The location of the patient shows graphically on the floorplan.

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LABOR AND DELIVERY

MISSED ALARMS

Level 3

Level 2

Level 1

Tag near open door - 01/28/2022 21:46:31

Tag Tamper - 01/28/2022 21:45:40

Tag Tamper - 01/20/2022 21:45:28

Bypass Expired - 01/20/2022 19:08:26

Bypass Expired - 12/09/2021 16:39:23

LOCATE PATIENT

Patient Name: Olt, Alex

Tag Number: F1E753

Device Name: East Hall Nurses Station

STOP LOCATE

Labor and Delivery

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Tags

All tags auto-enroll. There is no manual entry of tag ID number required. Tags appear automatically in the inventory and can be selected for assignment to a patient. All tags and cut-bands are water-resistant. Tags are not rechargeable. They must be replaced when the battery dies or you can enter into a Simple Tag Exchange Program and never buy a tag. Tags are warranted for one year.

The Tags Are Dual Frequency

- **Ultra-High Frequency (UHF) tag transmission** – UHF is used to enable the tag to transmit with minimal interference and through most all structures such as the human body, walls and infrastructure. The frequency 433 MHz has been universally and successfully used by RFID tagging systems in the US and Internationally since the early 1990's. The UHF signal from the tag is omnidirectional and is pulsed out in very small messages on a regular interval to the receiver infrastructure. The tags transmit their IDs, battery condition and alarm messages. Each tag transmission received can be associated with the closest receiver by the signal strength of the transmission reception.
- **Low Frequency (LF) tag transmission** – Low frequency is used to reliably engage tags near egress doorways and/or elevators. The door controllers emit a constant LF signal at 307 kHz. The tags listen for that signal and then validate that they are in the door field with a UHF 433 MHz response. This exchange is known as the “handshake.” In addition to reliability, the advantage of using LF signals is that the radio frequency area (or field) can be specifically tailored for each door or elevator's unique facility layout or area. Signals are configured to go from floor to ceiling and stretch side to side.

Types of Tags

- **Tummy Tag:** McRoberts invented and held the original patents on the tummy tag. Designed with the typical abductor in mind, tummy tags provide the best mitigation of the specific risk of infant abduction because they address the psychological profile of the typical abductor. Tummy tags are inherently anti-tamper as would-be infant abductors do not want to harm the baby by cutting the umbilical cord clamp and potentially harming the baby. The use of tummy tags provides a quiet system with no “nuisance” alarms. Tummy tags are designed to be placed in the hinge of an umbilical cord clamp. McRoberts offers its own custom-designed tamper-resistant clamps, but the MyChild tummy tag can be used with any umbilical cord clamp.
- **Cut-Band Tag:** The cut-band tag has a tamper detection mechanism. Cutting the band to remove the tag sets off an alarm. MyChild proprietary cut-bands are thin and soft on the inside, next to the patient's skin. The outside layer uses a proven electrical signal weave design for reliable cut detection. MyChild cut-bands are one-way adjustable, allowing for cinching to a snug fit.



- **Sensing Tag:** The sensing tag senses contact with the skin. A tag tamper alarm is triggered when the tag loses contact. The sensing tag can be used with any patient bands that fit in the tag slots.
- **Bracelet Tag:** For use when no tamper detection mechanism is required or desired, bracelet tags can be used with most standard hospital bands to attach to the patient's limb.

Simple Tag Exchange Program

Never buy a tag! Let McRoberts manage your tags for you. STEP is a program in which McRoberts manages your tag inventory, testing and disinfecting and provides tags for per-patient use with the MyChild patient protection system. You use tags once then return them to McRoberts for testing and disinfection on a weekly basis. STEP integrates seamlessly with clinical practices and relieves hospitals from the burden of cleaning tags, managing inventory, and the purchasing process when tag batteries expire.

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Installation – What To Expect

- From client-provided floor plans and information, a customized quotation is created.
- MyChild installation is quick and cost-effective due to the plug-and-play McRoberts Wireless Receiver.
- McRoberts is a turn-key solution provider. McRoberts operates a dedicated, full-time project management office to manage system installations from kick-off call to go-live.
 - Client should make available pertinent stakeholders.
 - Client should make available pertinent third-party vendors.
- Training is provided by a McRoberts-employed trainer. Training can be remote or onsite. Go-live new user support is onsite. How-To documents and videos are in a Resource Center in the software.

System Support

- McRoberts uses remote system connectivity to monitor MyChild automatically and proactively. MyChild software continuously monitors all devices in the system. Any device outage, a failure or an off-line condition triggers an alarm that is sent directly by email to McRoberts Tech Support and to whomever is subscribed at the hospital. Tickets are automatically opened.
- You will enjoy live 24/7/365 telephonic support by U.S.-based McRoberts technicians for life.
- Ninety-six percent of issues are remediated remotely.
- Local technicians are dispatched as needed for on-site support.
- All parts and labor are warrantied for the first year. Extended warranty, extended maintenance, preventive maintenance, and annual training contracts are available and recommended.

Add Other Modules For Just the Cost of Software Subscriptions

Add modules to the MyChild RTLS infrastructure at no cost other than the software subscription:

StaffWatch is a panic button for staff members. **AssetWatch** is an asset management system. **WanderWatch** is an anti-wandering system.

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