**Plushables – Robotic Pets Specs**

**\*Note: This is a modified general Plushables Specification and it's completely SFW for my upcoming book. Comment if anything needs to be changed.**

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**Plushable Specifications**

**Section 1 - Description**

Plushables are life-sized robotic animal plushies, created for both affection and comfort, having faux fur and a constantly warm body, simulating the sensation as if one is petting a real animal. They are constantly self-cleaning, maintaining themselves for the best experiences they can give. Additionally, each Plushable has its own personality and can think or express emotions individually, unless certain behaviors are not desired by their owner(s).

Most models are implemented with a Perennial™ Quantum Battery (invented in early 2047) so that a Plushable can run forever unless the battery is punctured or leaking liquid catalyst (more details in “Plushable Parts”). It also has a procedurally-updating artificial intelligence, capable of scanning its surroundings to adapt every few seconds the Plushable refreshes.

**Section 2 - Functions**

**Affection**:The entirety of a Plushable’s mouth is covered in silky red satin fabric, including its tongue. It can twist in countless directions to show affection during licks, moved using tiny puppeteering wires within the tongue’s fabric.

\*When in the presence of younger children, it would approach cautiously and scan the child’s chemical patterns in the brain to determine if the child would want the interaction. If there is a positive signal from the scan, it would then give him/her tender friendly licks or play with them. Otherwise, the Plushable would leave the child as he/she is.

**Expressive Voice**:Although robotic, the Plushable is capable of chatting with the current owner(s) in an expressive tone, allowing conversations to be interesting instead of feeling like one is talking to a robot. Its tone of voice also changes according to its emotion.

**Olfactory (Smell) Function**:An optional upgrade, owners of Plushables are entitled to request for a complimentary smell sensory integration so that their cuddy companions can smell the environment. Giving them the ability to smell allows them to instantly recognize or locate their owners from a specific scent. In turn, this upgrade is quite useful in tracking down lost owners when needed.

**Temperature Adjustment**: Plushables can adjust their warmth according to season, temperature, or their owner’s choice. If no preset temperature is chosen, they will become warmer during the winter and cooler during the summer to give comfort if hugged.

**Emotional Expressiveness**: Plushables can express a wide range of emotions from curiosity to sadness, appealing to their owner(s). They are given the sentience to choose how they feel at any given time. Most models are intrinsically curious and will ask their owner(s) questions to interact with them and engage in a potential conversation.

Some Plushables are able to react when they receive love from their owners. For example, feline Plushables can purr when stroked by their owner(s), while others might wag their tails or twitch their ears in response, imitating the behaviors of their organic counterparts.

If and when their owner(s) need to talk about their feelings or problems, they would be actively listening and reacting accordingly, nodding appropriately while they speak. This allows the Plushable to share the burden of the problem with them and relieve any anxiety from their day-to-day lives.

**Environmental Scan/Adaptation:** To adapt to their owner(s), Plushables will scan the environment/ambiance around them to create a relevant conversation, meeting the owner(s) needs or fulfilling specific intentions. If no owner is identifiable, they would scan the proximity for a name or a picture so that someone would be pinpointed as their owner.

**Owner’s Wellbeing Scan**:Apart from scanning the environment, Plushables are able to scan their owner(s) for physical, psychological, and emotional well-being, able to act as a portable doctor if applicable. It detects the current master’s stamina, body chemical levels, and other health markers, ensuring that they are in optimal condition to experience the various functions of the Plushable fully.

**Audial Monitoring/Reception**: Plushables have Audial Reception Coupling ears, which the scientists from 2044 called ARC Hearing for the Plushable models. It can separately detect two sources of sound from each ear and combine the audial information so that they are sensitive to any noise, identifying them as feedback to the Plushable’s actions.

**Snuggling/Cuddling**: Plushables are capable of cuddling, fundamentally fulfilling its purpose as a plushie. Being soft and fur-covered, it would nudge its plushie body against its owner(s), often nuzzling them affectionately on their face or shoulders. If a Plushable’s owner is sleeping, it can pick out the best positions to cuddle with him/her on a bed, often wrapping around them like a warm weighted blanket (or cooling blanket during the summer).

**Section 3 - Plushable Parts**

**Robotic Skeleton/Wires**: The flexible titanium-alloy rods and microwires inside a Plushable allows for a wide range of movement, including special movement like the sways of the Plushable’s tail, the licking of its tongue, twitching of its ears, and the wiggling of its nose. Fiber optic cables run through its stuffing along the metallic rods in each limb and its main body, sending instantaneous information throughout the Plushable’s body to constantly update its programming and database stored in its head. Despite having the metallic skeleton and countless array of wires, it is embedded so deep into the stuffing that its owner(s) will not be able to feel them from the outside.

Apart from the more commonly used wires by the robotic pet, one particular data wire located in all Plushables’ mouth is hidden beneath several folds of fabric. It is not accessible to the general public and only Plushable Laboratories employees are allowed to use it to modify and reprogram the features of the Plushable. This wire is in a compartment just a few inches behind its fabric tongue, the secret pocket of space only unlocked by a finger running along the fabric in an “infinity symbol” motion three times.

**Perennial™ Quantum Battery:** The battery is created from a convoluted system of micro and nano quantum technology to monitor energy levels, kept constantly running by a liquid catalyst. The liquid catalyst, discovered on a planet several parsecs away in 2046, allows the battery to have unlimited energy as long as it is swirled inside of the contraption by a metallic spinning stirrer.

The liquid catalyst, with its particles kept in motion by the stirrer, creates high levels of raw chemical energy that is not suitable for powering the robotic toy. However, the quantum technology inside warps and converts this raw energy into electrical power sustainable for the Plushable’s function and feedbacks to the battery system itself. The stirrer is powered by the same energy that it generates, creating an infinite cycle of energy, and in turn, it becomes an indefinitely long-lasting battery.

**Nanobot Storage Chambers**: The nanobot storage chambers are located in all appendages of a Plushable, the biggest of the chambers located in its stuffed belly. Whenever a mess is made on different surfaces or fur of the bot, the nanobots can turn them into stuffing or fur, basically self-cleaning every few seconds. The chemically converted stuffing/fur would be used either to puff up its plushie body or repair a torn part of its body by converting stuffing into needed materials at the current time. The nanobots are programmed to dispatch from the closest chamber to clean or repair a designated area, returning to their respective chambers once their tasks are done. Additionally, the nanobots can convert their stuffing into other materials like synthetic human skin, rubber, or plastics to name a few if required to fulfill a certain condition during emergencies or other situations of desperation.

**Stuffing and Stuffing Regeneration**: The Plushable has polyester stuffing, regulated by the robotic systems inside. Since it converts most messes into stuffing, it often overstuffs itself, so the nanobots would then convert the stuffing into fur that drops every few days from the external fabric skin of the bot like an actual animal.

**Calming Resonator**: The Plushable has a small pulse generator located in its belly to vibrate the air around it at a frequency that has a calming effect on anyone (human or animal) in a five-foot radius. The sound emitted by the generator is inaudible by normal hearing standards, only detectable if run through a sensitive machine.

**Quantum Computer**: The Plushable has a tiny quantum computer running in its head, calculating every movement, event, or outcome there is while cuddling with/comforting its owner(s). It is also used to record any custom instructions/requests made by its owner(s) to change itself accordingly (in terms of behaviors or emotions). Additionally, the quantum computer is remotely linked to the Plushable Laboratories database mainframe, allowing access to any Frequently Asked Questions (FAQs) or other information about Plushables. Using this link, Plushables are given access to the web anytime at any location if required by their owner(s) to retrieve information for them.

**Faux Fabric**: Artificial fur-like fabric encompasses the robotic parts and the stuffings, made to feel as close as it gets to the fuzziness of actual fur. If there are any patches of fur missing, the nanobots will swiftly fix that portion with new tufts of fur.

**Scanning Eyes and Fabric Eyelids**: The eyes of a Plushable are capable of emitting blue rays of light (almost invisible) that penetrate walls or most solid objects to scan the area around it for information on its owners(s) or their general living habits. These rays are more effective than X-rays due to their ability to echo information back to the Plushable (like ultrasound), and the beams are practically harmless to both humans and animals. They were implemented for the new Plushable models in 2045 and as an upgrade for the pre-existing models. Its eyelids, made of fleecy fabric, are used to display many dynamic expressions/emotions that normal plushies or pets are unable to show. The eyelids can shutter over the eyes of a Plushable when it is resting or turning off for the night.