

CHANGES TYPES: STANDARD VS NORMAL VS EMERGENCY CHANGE



The business world is somewhat notorious for its tendency to use confusing buzzwords and industry jargon. This is the case when it comes to differentiating between Standard and Normal Change. It's no surprise that many people ask themselves, "What is the difference between normal and standard change?" This is especially true given the fact that standard and normal are synonyms which are relatively interchangeable under most circumstances.

Before we go further down the rabbit hole or types of change, let's just make sure we're on the same page of what we mean when we say "change" in the first place.

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What is change?

In the context of the IT business world and, more specifically, the world of Information Technology Infrastructure Library (ITIL) management, change refers to modifications to the organization's software applications whether those are internal applications or client-facing products. Change in this context includes updates to existing code and systems that are tested and implemented into live environments.

This process of change management is handled by the Change Manager and Change Advisory Boards (CABs). Emergency changes (which we'll go over later) are changes that are more pressing and sensitive and are handled by the Emergency Change Advisory Board (ECAB) which is typically a subset of the CAB. The CAB generally handles two main types of changes about which they gather information before giving the final go-ahead for implementation to occur.

These two types of change handled by the CAB are Standard change and Normal change. Their specific definitions and designations might change from one organization to the next depending on their needs, but there are some general rules under which they tend to operate. Let's start exploring these processes by examining a standard change.

What is a standard change?

Standard changes, sometimes called Routine changes, tend to be pre-authorized changes that are considered to have little to no risk associated with them. They are fairly common occurrences that have specific guidelines and procedures which they follow. Standard changes are implemented often with repeatable steps that seldomly require modifications. The CAB usually doesn't review each case of a Standard change and instead establishes protocol and overviews the guidelines for enacting Standard changes.

Standard changes are often areas where [automation](#) can be implemented to help speed up the process and increase efficiency. These changes have been refined into a neat, ordered systematic approach that reliably results in success. Automating aspects of these Standard changes can drastically reduce time wasted on the process and free up man hours for work that requires a bit of human ingenuity.

[ITIL defines](#) Standard Change as "a pre-authorized change that is low risk, relatively common and follows a procedure or work instruction". Consider standard as the services that IT offers to its end users. Services such as lifecycle replacement of hardware, software patching and updates, firewall changes and new DNS entries. These are all examples of pre-authorized tasks that IT can follow immediately once a change request or requirement arises. Following the authorization of such

changes, minimal planning is required to perform a change request fulfilment. These changes typically arise as service requests from end-users and are well-anticipated in advance, not necessarily in terms of a specific time frame. Standard changes may also include operational changes that follow a specific schedule, such as refresh cycles of printers, workstations and networking devices.

The change implementation procedure is straightforward and rarely introduces an issue or risk. A thorough [risk assessment](#) procedure is executed prior to the authorization of standard changes. Only a business change or IT incident would require re-evaluation of the risks associated with standard changes.

It is described as a Standard Change since the approval and pre-authorization is at the discretion of the organization or the service provider. The procedure involved in change implementation is well-documented. The associated risks are calculated and accounted for, well in advance. The necessary risk mitigation measures are taken as part of the change implementation procedure. Once the change request is received, no additional approval is required from the decision makers or the Change Advisory Board (CAB).

Having an IT service request as a Standard Change has its advantages from an IT Service Management (ITSM) perspective. The change process flows with minimal friction, especially when information and departmental silos can cause unnecessary delays and limitations in change implementation. Having pre-authorization, documented implementation procedure and extensive risk assessment already in place allows IT to deliver the requested service efficiently and effectively, which is exactly the goal of the ITIL framework associated with change management.

There may be times when the CAB steps in and realizes that items need to be added to or removed from the list of Standard changes that require very little oversight. Generally, a Standard change goes off without a hitch during a scheduled maintenance window and has little, if any, impact on live services. This is in direct contrast to Emergency changes which require direct oversight and careful consideration.

What is an emergency change?

Emergency changes are basically the exact opposite of Standard changes. [ITIL defines Emergency Change](#) as "a change that must be introduced as soon as possible". Examples of Emergency Change include a security patch implementation to a [zero-day exploit](#) or network isolation from a large-scale [Distributed Denial of Service \(DDoS\)](#) attack.

These changes typically represent a crisis or an opportunity that must be addressed without undue risk. An acceptable level of risk is therefore expected and specific procedures are followed as a risk mitigation strategy. Specific approvals and authorization is also required before implementation of an Emergency Change. This does not mean lengthy meetings between CAB members, but a high-level oversight over the change management process. The process must follow swift action from all stakeholders at every stage of the change management process. As a result, the Emergency Changes are not thoroughly tested and appropriate decisions are made as a balanced tradeoff between risk and reward.

The agility of the organization determines how well it can manage Emergency Changes. It follows a similar change management process flow as Normal Changes, but at an accelerated timescale according to the ITIL guidelines. Successful handling of an Emergency Change determines the

stability of the IT services provided to end-users. Therefore, the impact of an Emergency Change should be documented and evaluated for future improvements in the change management process. A remediation or back-out process should also be included in the Emergency Change management protocols. This allows restoration to the original state when change implementation activities introduce additional risk and issues.

They don't come at expected times and are anything but run-of-the-mill. Emergency changes are brought about as a response to unforeseen obstacles such as security flaws and exploits. Emergency changes are brought to the immediate attention of a Change Manager and are then sent on to the ECAB for further analysis. It is the duty of the ECAB to assess the risk of the proposed Emergency changes and weigh the danger that the underlying issue poses to the organization and its services.

The ECAB seeks to find a quick but effective remedy to the newly discovered issue and works on a tight deadline that leaves no room for the typical red tape involved in most change operations. Information must be quickly gathered and analyzed to decide upon the best course of action for remedying the issue at hand. Emergency changes are tested quickly and implemented immediately when necessary. The goal of Emergency changes is to impact live services as little as possible and stop the bleeding as quickly as possible. This leaves little opportunity for standard procedures as out of the box solutions are most often required.

What's left somewhere in the middle of Emergency change and Standard change is Normal change.

What is a normal change?

Most organizations define Normal changes as any change that is NOT an Emergency change or Standard change. Normal changes are not pre-authorized like Standard changes are, but they also don't operate on the stricter timeline and more Wild West nature of Emergency changes that require freedom from red tape and constricting guidelines. Normal changes go through the CAB process for each change that is made.

This allows oversight on the changes and provides the CAB with an opportunity to assess whether this Normal change occurs with enough frequency that it can be given repeatable guidelines which could convert it into a Standard change. Each Normal change is processed as a Request for Change (RFC), which is fed to the CAB and ultimately approved or shot down by the Change Manager.

Normal changes are fairly common but typically require somewhat unique or novel approaches, unlike Standard changes which can generally be accomplished through the use of step by step guides or some basic outlines. Normal changes undergo self review where the team analyzes the change within the scope of the assignment and assesses its viability before they push it through to the CAB. The CAB then goes over the proposed change and ensures it meets compliance and all security protocols before it is finally handed onto the Change Manager for final approval.

ITIL defines Normal Change as "a change that is not an emergency change or a standard change. Normal changes follow the defined steps of the change management process". These are the changes that must be evaluated, authorized and then scheduled according to a standardized process. These changes are anticipated and planned in advance and appropriate standardized change management controls may be devised accordingly. However, the Normal Change is implemented only after formal authorization and approval is received. Low risk changes may require authorization from local IT teams while high risk changes may require approval from the CAB or

senior business and IT executives. All activities within the change management process controls are practiced for the Normal Changes.

Examples can include migration of critical information resources, applications and workloads from on-premise servers to cloud data centers.

Defining changes as Normal reduces the risk for the organization and IT service providers, since planning for each change ensures that risks are carefully mitigated and change requests produce desired outcomes. However, implementation of Normal Changes is also a lengthy and time consuming process. In addition to the approval and authorization process, the service provider needs strong visibility and control into the change process, subjected systems and the associated dependencies.

Management and implementation of Normal Changes therefore requires advanced ITSM technologies to carefully analyze, test, manage and execute the change process and systems. Once the Normal Change is implemented, IT evaluates the implementation success and future requirements of similar changes. Ideally, IT matures its change management process, tooling and capabilities to transform a Normal Change into a Standard Change. This reduces the burden on IT and the service providers to manage changes while also gaining control over the change management process as achieved for Standard Changes.

Summary

This process of change management helps to increase the success of implementations while reducing risk and minimizing downtime. The different types of change and their categorization aids the smooth operation of the entire change process. Standard changes are made with little to no oversight while Emergency changes require careful management and detailed analysis. Normal changes sit happily in between those two extremes.

The distinction between Standard, Normal and Emergency Change should be observed from a conceptual perspective, beyond differences in the naming convention. The terms Standard and Normal may appear synonymous but the underlying differences represent the efficacy of change management procedures and controls. It's therefore important to have a [strong change enablement](#) practice in discriminating between the three change types through careful assessment of the change requests and incidents leading to a change requirement.

These three types of change help organizations to address issues as they occur while maintaining the constant pace expected of modern [DevOps](#) organizations.