



INTEGRITI PARTITION SYSTEMS GUIDE



INNER RANGE recommends that all Inner Range systems be installed & maintained by FACTORY CERTIFIED TECHNICIANS.

For a list of Accredited Dealers in your area refer to the Inner Range Website.

<http://www.innerrange.com>

Integriti Partition Systems Guide

Overview:

The Inner Range Integriti system was conceived as a powerful, Global, Enterprise Access Control and Intrusion Detection system. It has gained a strong following for its ability to program entities which seamlessly span multiple controllers without requiring any special configuration or operator assistance. This allows integrators to create large federated systems, whilst retaining operational simplicity for the end user.

Whilst this functionality is desirable for systems which consist of a single logical system comprising a multitude of field controllers, it is not optimal for systems which consist of numerous independent sites for which independent management is desirable.

The Inner Range Concept & Insight solution, handles the management of multiple independent sites extremely well, however due to parts availability, this family of products is reaching its end of life.

In order to address this deployment scenario with the Integriti system, Inner Range have added a new construct, known as a Partition. In essence, a partition allows the creation of as many separate sites as needed, which can be managed independently from each other, whilst still allowing (but not requiring) a global layer which spans all partitions.

This solution is ideal for the following deployment scenarios

- **Independent Unrelated Sites** – On multi-site Integriti systems, users and permissions are intelligently synchronised across dozens or even hundreds of sites. Prior to the introduction of the Partition feature, these sites were all treated as part of a single enormous global system. Whilst the raw power of the Integriti system made this viable, it could be inefficient in terms of configuration complexity, bandwidth consumption and server load. By using the Partition feature, each site can now be administered independently of each other, guaranteeing that no unintended changes occur on other sites when making changes within a partition.
- **Branch Office Scenarios** – For clients which have numerous independent branch offices, where the vast majority of staff have an affinity to a single site, and no need to access any other sites. In addition to the branch staff, there are a number of users who require global permissions, granting them access to many sites at once. Examples of such users may be security personnel, senior management, inspectors, cleaners, etc.



This document is written assuming a reasonable understanding of the Integriti Professional software and its components.

If any instructions are unclear, please refer to the System Configuration Handbook for more information.

What is a Partition in the Integrati System?

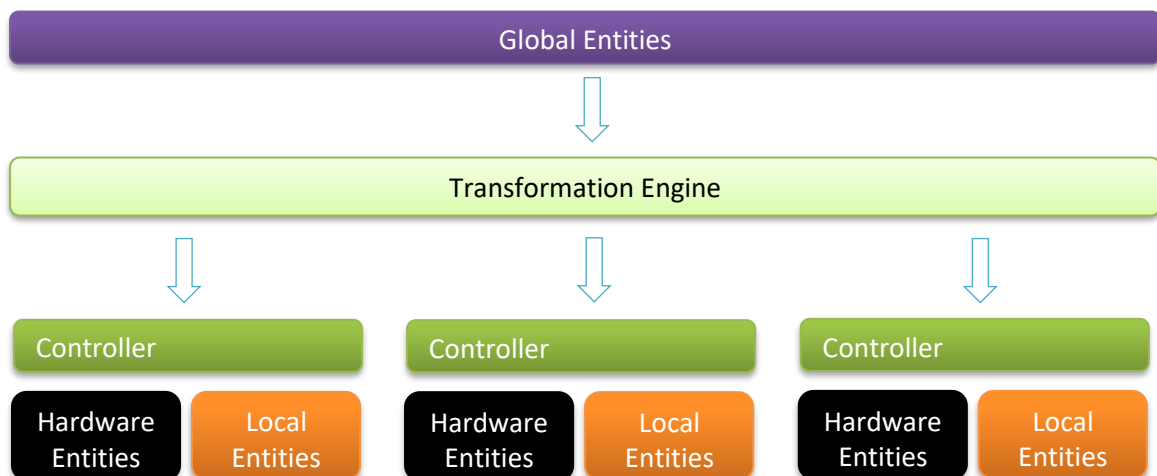
Like most networked Intrusion Detection and Access Control systems, numerical identifiers are used throughout the Integrati system to identify entities. Some entities such as Doors, LAN Modules, Inputs and Outputs are scoped to the controller to which they are connected, these are referred to as “Local Entities”. Other entities, such as Users, Permission Groups, Door Lists and Area Lists have a global scope, which spans all controllers in the system. Furthermore, Users are validated such that they must have unique card numbers and PIN codes across the entire system.

A partition allows the system to be configured such that Global Entities can be segregated into separate partitions, allowing independent management and configuration of Global Entities in each partition. Each partition can contain any number of controllers, and the software provides a range of helpful tools to allow entities to be moved between partitions, whilst controlling the ID numbers allocated to each entity.

In addition to this, Global Entities not within a partition can still be used for entities which are required to span all partitions.

Global System

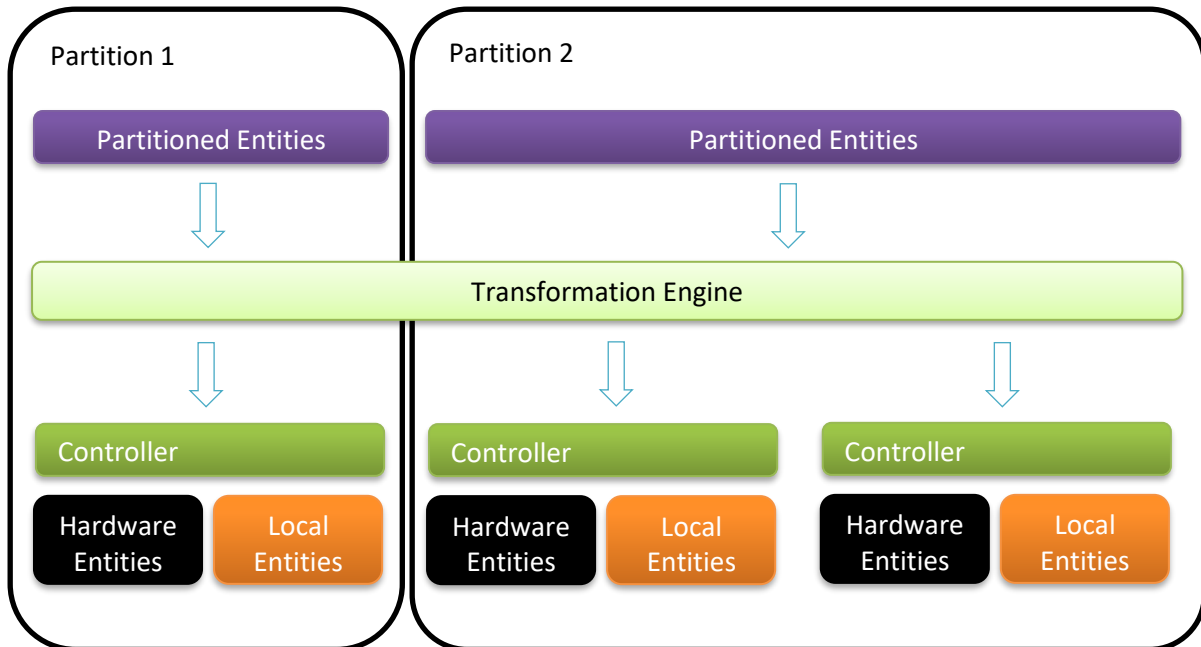
In a purely global system, Global Entities such as Users, Permission Groups, Door Lists and Area Lists are defined once, and can reference entities in any controller. Integrati automatically transforms this programming into the specific subset required by each controller. This allows operators to program the system as a single cohesive unit, without needing to be concerned with the hardware topology used.



This approach while convenient for a single system comprised of multiple controllers acting in concert, it becomes problematic when dealing with numerous logically disparate systems where there is little or no need for entities to span all controllers.

Partitioned System

In a partitioned system, Global Entities such as Users, Permission Groups, Door Lists and Area Lists are defined separately in each partition, and are allocated an ID number which is scoped to their enclosing partition. This allows separate sites to be independently managed, without interfering with the programming of another site. This even includes “uploads” from the Controller, where data may have been changed either through the keypad, or via Integrati CS.

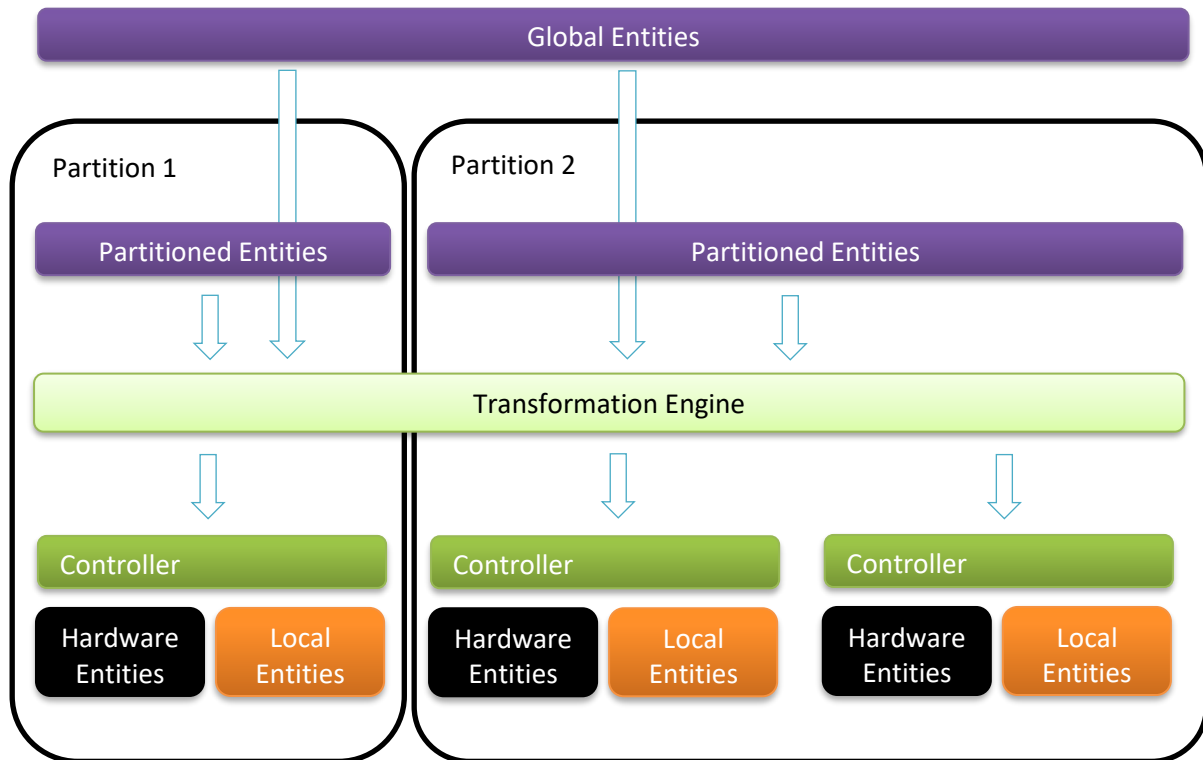


This allows site administrators to fully manage their own systems, without risking unintended changes to other sites. Even if security contractors work on-site using Integrati CS, those changes will be seamlessly synchronised with the primary server, giving the isolation benefits of a stand-alone local system, whilst still providing a single overarching point of management to oversee, supervise and audit all branch offices in the system.

Hybrid System

A hybrid system provides the advantages of both a global and partitioned system by allowing individual sites to be maintained independently of each other, with the addition of global entities which span all partitions.

One example of this may be an organisation which consists of numerous branch offices, each with staff who have no need to access other branch locations. In addition to this, corporate managers, inspectors, security personnel, cleaners and other contractors can be assigned global permission groups which can grant permissions across all sites.



This can vastly simplify user management, and enhance the accuracy of reports where a single user may access multiple locations over a period of time. In systems which are purely local, this user would need to be programmed separately into each system, and would need to be coalesced in reporting, resulting in added complexity and manual overhead.

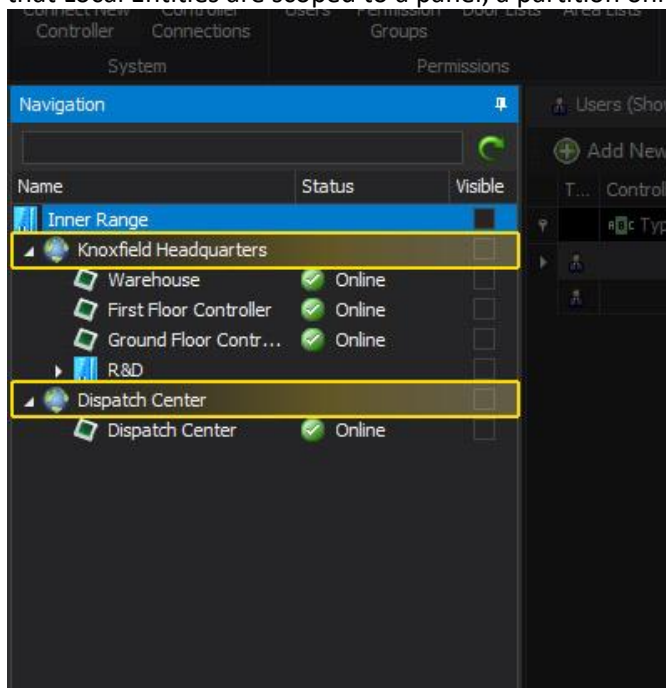
New Features

In Integriti Version 19, Two new features have been added to the Integriti System designer in order to help system administrators and operators manage what “Site” or “Partition” is currently in context, which controls where new entities are created, and manages which entities are available for selection when adding a new reference between entities.

These are the “Partition” item in the Navigation Tree and the Navigation Bar at the top of the application window in both System Designer and Gatekeeper.

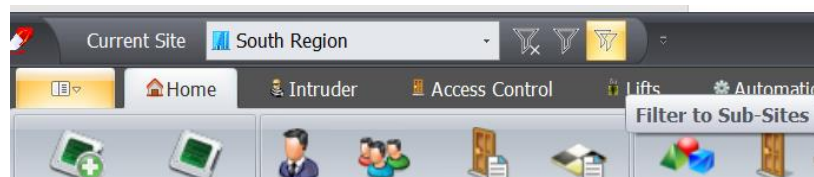
Partition Navigation Tree Item

In Integriti V19, a “Partition” retains all the properties of a “Site”, but creates a new address space (range of available ID numbers) which are separate to those of the global system. Due to the fact that Local Entities are scoped to a panel, a partition only applies to Global Entities.



This icon represents a Partition

Current Navigation Context



The “Current Site” navigation context menu appears at the top of Integriti System Designer and Gatekeeper applications and allows users to easily see and change the current navigation group. Additionally, the new “Current Site” selector allows the automatic filtering of your system to either the selected site, or the selected site and it’s sub-sites.

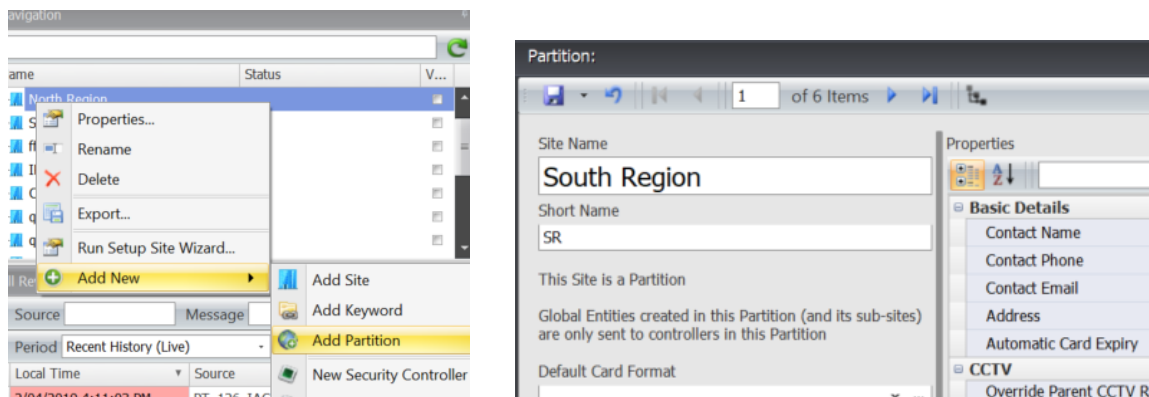
Creating a Partition

In order to create a new partition, open Integrati System Designer and right click on a site (including the Default Site which is always visible at the top of the tree) and select **Add New -> Add Partition**

Selecting “Add Partition” will open the Partition properties window, with your new partition ready to name and save.

Note: Because a partition is a special kind of Site, all of the usual Site Properties are also properties of every Partition.

Click



Short Name: A partition’s “Short Name” is restricted to 3 letters, and must be unique. The Short Name and is prepended to the regular ID of all partitioned global entities in the software to help distinguish them. For Example “U1” is the global User1 and is in ALL panels across all partitions. “SR.U1” is a “Partitioned User” who is only in controllers with the Short Name of “SR”.

Changing the partition of a Controller

In a similar fashion to moving controllers between “Sites” in Integrati, controllers can also be moved in and out of a partition, or between partitions.

Note: This procedure requires dis-connecting and partially re-synchronising the controller. Moving a controller out of a partition will remove any partitioned entities from that controller.

Partitioned Entities

Partitioned entities by definition created **inside** a partition. They cannot be moved out of their Partition, or to another Partition.

If for example a user is accidentally created in the wrong partition, that user would have to be deleted, and another created in the correct partition. This can be made easier by using the “Duplicate” option in System Designer, and changing the Partition of the duplicated entity before it is created.