

IT Business Management Standard (Std): Has full access to Project & Portfolio Management, Demand, Innovation, Resource, Release Management, Financial Planning, Investment Portal, Innovation Management, PPM collaboration & Alignment Planner Workspace applications in ITBM Standard, along with PA.

IT Business Management - Professional (Pro): Has full access to all applications in ITBM Standard + Investment Funding, Scaled Agile Framework, Scrum Programs for Agile 2.0, Alignment Planner Workspace Pro along with PA, VA & PI.

Application Portfolio Management (APM): Has full access to Application Portfolio Management and associated integrations, Financial Modeling; for the Application TCO out of box model only, along with PA & PI.

Business Stakeholder (BS): Can do everything a Requester does as well as approve or deny a record routed to the user (no other record field may be modified) and View Reports and Records associated to the ITSM, ITBM, CSM & App Engine Portfolio of Products.

Time Card (TC): Can report time to anything in ITBM or ITSM, full access to time card capabilities, including Mobile time cards PA.

Anyone with a 'Fulfiller', user-type license (i.e., ITSM, CSM, APM, DevOps) on the ServiceNow platform are entitled to use time cards

Agile Team (AT): Full access for anyone in the sys_user table to all versions of Agile Development, including Mobile along with Test Management and PA. Excludes SAFe & Scrum Programs.

IT Business Management Analyst (A): Has full access to the six primary IT Business Management Planner applications plus full access to the rest of the ServiceNow ITBM Product Line including; Financial Modeling and Application Portfolio Management.

Service Strategy Analyst - has the exact same entitlement(s), without Application Portfolio Management. APM was not released until the ITBM version(s) of the Analyst License.

IT Business Management Planner (P): Has full access to the five primary IT Business Management Worker applications listed below plus the ServiceNow Financial Planning application. In addition, the ITBM-Planner is granted partial use-rights to Application Portfolio Management; only to create configurations for specific applications managed and modify any associated record. Includes access to Financial Modeling, only to view reports.

Service Strategy Planner - has the exact same entitlement(s), without Application Portfolio Management. APM was not released until the ITBM version(s) of the Planner License.

IT Business Management Worker (W): Has "limited" use rights for the Demand, Resource, Project Portfolio, Agile Development and Test applications. In addition, the ITBM-Worker is granted rights to modify assigned work tasks, create and modify checklists on assigned tasks, and to submit time cards and sheets on assigned work.

Service Strategy Worker - has the exact same entitlement(s), without Application Portfolio Management. APM was not released until the ITBM version(s) of the Worker License.

ITSA Unlimited (ITSA): This is a legacy ITSM license that has full access to PPM, Financial Planning, Innovation Management and Agile Development SAFe, along with the other entitlements of the ITBM or Service Strategy Planner entitlements introduced before the New York release.

ITSM (ITSM): This is all Modern ITSM licensing versions, these licenses have some entitlement to update Application related data within the Application Portfolio Management application.

Requestor (R): Platform User Licensing - Anyone who requests something on the ServiceNow Platform.

| Project Portfolio Management | Std | Pro | APM | BS | TC | AT | Α | Р | W | ITSA | ITSM | R | Notes |
|--|-----|----------|-----|----------|----|----|--------------|----------|------------|----------|------|---|--|
| View Portfolios | ✓ | ✓ | | ✓ | | | \checkmark | ✓ | ✓ | ✓ | | | |
| Create a portfolio | ✓ | ✓ | | | | | √ | √ | | ✓ | | | |
| Edit a portfolio | ✓ | √ | | | | | \ | > | | ✓ | | | |
| Include demand, projects, programs etc. in portfolio | ✓ | √ | | | | | √ | √ | √ * | √ | | | * A Worker can add new or existing demand(s) to a portfolio. Portfolio field is not visible for the Demand_User Role. |
| View Portfolio Workbench | ✓ | ✓ | | | | | √ | √ | | ✓ | | | |
| Edit in Portfolio Workbench | ✓ | ✓ | | | | | ✓ | √ | | ✓ | | | |
| Do financial planning in Portfolio Workbench | ✓ | ✓ | | | | | ✓ | √ | | ✓ | | | |
| View reports for portfolios | ✓ | ✓ | | ✓ | | | ✓ | √ | √ | ✓ | | | |
| Create reports for portfolios | ✓ | ✓ | | | | | \ | > | | ✓ | | | |
| Program Management | Std | Pro | APM | BS | TC | AT | Α | Р | w | ITSA | ITSM | R | Notes |
| View Program Workbench | ✓ | ✓ | | | | | √ | ✓ | | ✓ | | | |
| Create a program | ✓ | ✓ | | | | | ✓ | √ | | ✓ | | | |
| Edit a program | ✓ | ✓ | | | | | ✓ | √ | | ✓ | | | |
| Include projects to a program | ✓ | ✓ | | | | | ✓ | √ | | ✓ | | | |
| View program manager dashboard | ✓ | ✓ | | ✓ | | | ✓ | ✓ | | ✓ | | | |
| View reports for programs | ✓ | √ | | ✓ | | | \checkmark | √ | √ | ✓ | | | |
| Create reports for programs | ✓ | √ | | | | | √ | √ | | √ | | | |



| Project Management | Std | Pro | APM | BS | TC | AT | Α | Р | w | ITSA | ITSM | R | Notes |
|---|--------------|----------|-----|----------|----------|----|----------|----------|---------------------------------------|----------|--------|---|--|
| Create new project | √ | √ | | | _ | | ✓ | ✓ | | J∧ | 2.3.71 | | |
| Edit Project | √ | √ | | | | | √ | √ | | √ | | | |
| View all Projects | √ | √ √ | | √ | | | √ | √ √ | √ | √ | | | |
| Project Workspace | √ | √ √ | | V | | | √ | √ √ | √ | √ | | | |
| Analytics tab | √ | √ √ | | | | | √ | √ √ | √ | √ | | | |
| Details tab | ✓ ✓ | √ √ | | | | | √ √ | √ √ | ✓ ✓ | ✓ ✓ | | | |
| | √ | √ | | | | | √ | √ | ✓ ✓ | √ | | | |
| Planning tab | ✓ ✓ | √ | | | | | √ | √ √ | V | ✓ ✓ | | | |
| Financials tab | ✓ ✓ | ✓ ✓ | | | | | √ √ | ✓ ✓ | √ | ✓ ✓ | | | |
| Status Report tab | ✓ ✓ | √ | | | | | √ | √ | V | ✓ ✓ | | | |
| Resource Tab | _ | ✓ ✓ | | | | | _ | ✓ ✓ | | ✓ ✓ | | | |
| Create project tasks | √ / | | | | | | √ √ | | , | | | | |
| Edit project tasks | √ | √ | | | | | | √ / | ✓ | √ | | | |
| Create and edit subprojects | √ | √ | | | | | √ | √ | | √ | | | |
| Create requirements | √ | √ | | | | | √ | √ | | √ | | | |
| Create resource plans | √ | √ | | | | | √ | √ | | √ | | | |
| Create cost plan | √ | √ | | | | | √ | √ | | √ | | | |
| Edit cost plan | √ | √ | | | | | √ | √ | | √ | | | |
| Create benefit plans | √ | √ | | | | | √ | √ | | √ | | | |
| Create project budget | √ | √ | | | | | √ | √ | | √ | | | |
| Create baseline | ✓ | √ | | | | | √ | √ | | √ | | | |
| Create/View Financial Baseline | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Compare baselines | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Create status reports | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| View status reports | ✓ | ✓ | | ✓ | | | ✓ | ✓ | ✓ | ✓ | | | |
| Create risks | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Create issues | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Create decisions | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Create actions | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| View RIDAC | \checkmark | ✓ | | | | | √ | ✓ | ✓ | | | | |
| Edit tasks on Project (RIDAC) | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Add tasks on Project (RIDAC) | ✓ | > | | | | | > | > | | ✓ | | | |
| Delete tasks on Project (RIDAC) | ✓ | √ | | | | | \ | ✓ | | ✓ | | | |
| View Stakeholders | ✓ | > | | | | | > | > | ✓ | ✓ | | | |
| Create timecard | ✓ | > | | | > | | > | > | ✓ | ✓ | | | |
| Register time against a task | ✓ | ✓ | | | √ | | ✓ | √ | ✓ | ✓ | | | |
| Register time against the project | ✓ | ✓ | | | √ | | √ | √ | ✓ | ✓ | | | |
| Create expense lines | ✓ | ✓ | | | | | √ | √ | | ✓ | | | |
| Create expense lines to the project | ✓ | ✓ | | | | | √ | ✓ | | ✓ | | | |
| Calculate completion estimates | ✓ | ✓ | | | | | √ | √ | | ✓ | | | |
| Move Project | √ | ✓ | | | | | √ | √ | | √ | | | |
| View project in Project Workbench | ✓ | √ | | | | | √ | √ | | √ | | | |
| Edit project in Project Workbench | √ | ✓ | | | | | √ | √ | | √ | | | |
| Copy a project | √ | √ | | | | | √ | √ | | √ | | | |
| Copy partial project | √ | √ | | | | | √ | √ | | √ | | | |
| Apply template to a project | √ | ✓ | | | | | √ | √ | | √ | | | |
| Create a template | √ | √ | | | | | √ | √ | | √ | | | |
| Create a template from a project | √ | √ | | | | | √ | √ | | √ | | | |
| Create task template | √ | √ | | | | | √ | √ | | √ | | | |
| Assign tasks to a resource | √ | √ | | | | | √ | √ | √ | √ ✓ | | | |
| Edit phase or milestone | √ | √ √ | | | | | √ | √ √ | √ | √ | | | |
| Project task creator (child tasks) | √ | √ √ | | | | | √ √ | √ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | √ | | | |
| Export to MS Project | ✓ ✓ | √ | | | | | √ | √ | | ✓ ✓ | | | |
| Import from MS Project | ✓ ✓ | √ | | | | | √ | √ √ | | ✓ ✓ | | | |
| | √ √ | ✓ ✓ | | | | | √ √ | ✓ ✓ | | ✓ ✓ | | | |
| Add to visual task board | √ | √ | | | | | √ | V | | V | | | |
| Approve submitted time registered against the | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | | ✓ | | | |
| project or task | / | / | | / | | | / | / | | , | | | |
| View project manager dashboard | √ / | √ / | | √ | | | √ / | √ | | √ / | | | |
| View reports for projects | ✓ | ✓ | | ✓ | | | ✓ | ✓ | | ✓ | | | * A Washington and accepts Dia / Day Chart / A Security Day 11 |
| Create reports for projects | ✓ | ✓ | | | | | ✓ | ✓ | √* | ✓ | | | * A Worker can create Pie/ Bar Chart(s) from the Project list, but cannot save them. |



| Project Management Cont'd | Std | Pro | APM | BS | TC | ΑТ | Α | Р | W | ITSA | ITSM | R | Notes |
|---|----------|----------|-----|----|----|----------|----------|----------|------------|----------|------|---|--|
| View Stories in Agile Phase of Project | | √ | | | | √ | √ | √ | ✓ | √ | | | |
| Create Stories in Agile Phase of Project | | √ | | | | √ | √ | √ | | √ | | | |
| Edit Stories in Agile Phase of Project | | √ | | | | √ | √ | √ | √ * | √ | | | * A Worker can create Scrum tasks on Stories only. |
| View Stories in Backlog | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Create Stories in Backlog | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | | | |
| Edit Stories in Backlog | | ✓ | | | | ✓ | ✓ | ✓ | √ * | ✓ | | | * A Worker can create Scrum tasks on Stories only. |
| View Agile Resource Groups | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | | | |
| View Agile Phase Sprints | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Create Project Sprints | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | | | |
| Edit Project Sprints | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | | | |
| Find similar projects using Predictive Intelligence | | ✓ | | | | | | | | | | | |
| Access project info via virtual agent | | ✓ | | | | | | | | | | | |
| PPM Collaboration (Slack & MS Teams) | ✓ | ✓ | | | | | | | | | | | |
| Investment Portal | Std | Pro | APM | BS | TC | AT | Α | Р | W | | ITSM | R | Notes |
| Create/Edit/Delete Investment portal | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Financials view | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Delete fields added by user | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| View Investment Portal records | ✓ | ✓ | | | | | ✓ | ✓ | ✓ | ✓ | | | |
| Investment Funding | Std | Pro | APM | BS | TC | ΑT | Α | Р | W | ITSA | ITSM | R | Notes |
| Define Funding Entity | | √ | | | | | | | | | | | |
| Create/Modify Top Investment | | ✓ | | | | | | | | | | | |
| Create/Modify Investment | | ✓ | | | | | | | | | | | |
| Request funds | | ✓ | | | | | | | | | | | |
| Fund child Investments | | ✓ | | | | | | | | | | | |
| Enter actual spend | | ✓ | | | | | | | | | | | |
| Financial Planning | Std | Pro | APM | BS | TC | АТ | Α | Р | w | ITSA | ITSM | R | Notes |
| Access Budget Console | √ | √ | | | | | √ | √ | | √ | | | |
| Access Variance Console | √ | √ | | | | | √ | √ | | √ | | | |
| View All Budget Plans | √ | √ | | | | | √ | √ | | √ | | | |
| View My Budget Plans | √ | √ | | | | | √ ✓ | √ √ | | √ | | | |
| Create Budget Plans | √ | √ | | | | | √ | √ | | √ | | | |
| Edit Budget Plans | √ | √ | | | | | √ | √ | | √ | | | |
| Delete Budget Plans | Ť | • | | | | | | <u> </u> | | · · | | | Requires System Admin to perform this function of |
| | √ | √ | | | | | √ | √ | | √ | | | Financial Planning. |
| View Budget Targets | | _ | | | | | | | | | | | |
| Create Budget Targets | √ | √ | | | | | √ | √ | | √ | | | |
| Edit Budget Targets | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | Requires System Admin to perform this function of |
| Delete Budget Targets | | | | | | | | | | | | | Financial Planning. |
| View Accounts (General Ledger) | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Create Accounts | ✓ | √ | | | | | ✓ | ✓ | | ✓ | | | |
| Edit Accounts | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Delete Accounts | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| View Budget Periods | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Create Budget Periods | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Edit Budget Periods | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Delete Budget Periods | | | | | | | | | | | | | Requires System Admin to perform this function. |
| View Forecast Periods | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Create Forecast Periods | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Edit Forecast Periods | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Delete Forecast Periods | | | | | | | | | | | | | Requires System Admin to perform this function. |
| View Budget Keys | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Create Budget Keys | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Edit Budget Keys | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Delete Budget Keys | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| View Override Categories | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Create Override Categories | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Edit Override Categories | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Delete Override Categories | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| View Budget Reference Rates | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Create Budget Reference Rates | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Edit Budget Reference Rates | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Delete Budget Reference Rates | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| View Budget Actuals | ✓ | ✓ | | | | | ✓ | √* | | √ | | | * A Planner can only read. |
| Create Budget Actuals | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Edit Budget Actuals | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Delete Budget Actuals | ✓ | ✓ | | | | | ✓ | √ | | ✓ | | | |
| | | | | _ | | | _ | _ | _ | _ | | | |



| Scenario Planning for PPM | Std | Pro | APM | BS | TC | AT | Α | Р | W | ITSA | ITSM | R | Notes |
|--|----------|----------|----------|----------|----|----|----------|------------|--------------|----------|-------|---|--|
| View Portfolio Workbench | √ | √ | | | | | | | | | | | |
| Do financial planning in Portfolio Workbench | √ | √ | | | | | | | | | | | |
| Create a scenario | √ | √ | | | | | | | | | | | |
| Delete a scenario | √ | √ | | | | | | | | | | | |
| Confirm a scenario | √ | √ | | | | | | | | | | | |
| Edit Portfolio Target | √ | √ | | | | | | | | | | | |
| Edit Project Budget | √ | √ | | | | | | | | | | | |
| Track Portfolio progress | √ | √ | | | | | | | | | | | |
| Compare scenarios | √ | √ | | | | | | | | | | | |
| PPM Strategic Spend Tracking | _ | Pro | APM | BS | TC | AT | Α | Р | w | ITSA | ITSM | R | Notes |
| Assign Demand allocation to Strategies and Goals | √ | √ | | | | | | | | | | | |
| Assign Project allocation to Strategies and Goals | √ | √ | | | | | | | | | | | |
| Recalculate Strategic Spend allocations | √ | √ | | | | | | | | | | | |
| View Strategic Spend Dashboard | 1 | √ | | √ | | | | | | | | | |
| Rate Model | Std | Pro | APM | RS | TC | ΔΤ | Α | Р | w | ITSΔ | ITSM | R | Notes |
| Create/Edit/Delete Rate model | √ | √ | AI IVI | 55 | - | Α. | ∀ | ✓ | - | √ √ | 11310 | - | Hotes |
| Associate Rate model to Project/Demand | √ | √ | | | | | √ | √ * | | ✓ | | | * A Planner can associate Rate model to any Project/Demand. |
| Resource Management | Std | Pro | APM | BS | TC | AT | Α | Р | w | ITSA | ITSM | R | Notes |
| View Resource Report (platform Reports) | √ | √ | 7 11 101 | √ | | 7 | √ | <u>√</u> | | √ | | | |
| View Resource Workbench | √ | · √ | | | | | · ✓ | <u>√</u> | | √ | | | |
| Create Resource Reports | √ | √ | | | | | √ | √ | | √ | | | |
| Create a Resource | Ť | | | | | | | | | \ \ \ | | | Requires System Admin to perform this function. |
| create a resource | | | | | | | | | | | | | * A Planner or Analyst can update schedules, time |
| Edit a Resource | ✓ | ✓ | | | | | √* | √* | | ✓ | | | zones, notifications, calendars and create delegates only. |
| Delete a Resource | | | | | | | | | | | | | Requires System Admin to perform this function. |
| View Resources | ✓ | ✓ | | | | | ✓ | √ | | ✓ | | | |
| View Resource Groups | ✓ | ✓ | | | | | ✓ | √ | | ✓ | | | |
| Create Resource Groups | ✓ | ✓ | | | | | ✓ | √ | | ✓ | | | |
| Edit Resource Groups | ✓ | ✓ | | | | | ✓ | √ | | ✓ | | | |
| Delete Resource Groups | | | | | | | | | | | | | Requires System Admin to perform this function. |
| Assign Work to a Resource | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| View Resource Plans | ✓ | ✓ | | ✓ | | | ✓ | ✓ | | ✓ | | | |
| Create Resource Plan | ✓ | ✓ | | | | | ✓ | √ | | ✓ | | | |
| Edit Resource Plan | ✓ | ✓ | | | | | ✓ | √ | | ✓ | | | |
| Delete Resource Plan | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Fulfill a resource plan, Allocating resources to a | , | , | | | | | , | , | | , | | | |
| resource plan or project | ✓ | √ | | | | | √ | √ | | ✓ | | | |
| Manage Resource skills | √ | √ | | | | | √ | √ | | √ | | | |
| Add Skills to a Resource | ✓ | √ | | | | | √ | ✓ | | √ | | | |
| Manage my own skills | √ | √ | | | | | √ | √ | | √ | | | |
| View Resource Roles | √ | √ | | √ | | | √ | √ | √ | √ | | | |
| Create Resource Roles | √ | √ | | | | | √ | √ | | √ | | | |
| Edit Resource Roles | √ | √ | | | | | √ | √ | | √ | | | |
| | ✓ | √ | | | | | √ | √ | | √ | | | |
| Delete Resource Roles | | | | | | | √ | √ | / | √ | | | † |
| Delete Resource Roles View My Calendar | √ | ✓ | | | | | √ | V | \checkmark | V | | | |
| View My Calendar | √ √ | √ √ | | | | | ✓ ✓ | ✓ ✓ | ✓ ✓ | ✓ ✓ | | | |
| | | | | | | | | | | | | | |



| Idea/ Innovation Management/ Demand | Std | Pro | APM | BS | TC | AT | Α | Р | w | ITSA | ITSM | R | Notes |
|---|--------------|----------|----------|----------|----------|----------|----------|-------------|----------|----------|----------|------------|---|
| Management | | / | / | / | / | / | / | / | / | - | / | / | |
| Create Ideas (form or portal) | ✓ | ✓ | √ | √ | ✓ | √ | ✓ | ✓ | ✓ | ✓ | ✓ | √ | Requestors can create an idea. * Requestors can edit my ideas as long as it hasn't been |
| Edit My Ideas (form or portal) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | √ * | approved or rejected. |
| View My Ideas | ✓ | √ | √ | √ | √ | √ | Requestors can view my ideas. |
| View All Ideas | ✓ | > | ✓ | > | > | > | ✓ | \ | ✓ | ✓ | ✓ | \ | Requestors can view all ideas. |
| View Idea Manager Dashboard | | ✓ | | | | | | | | | | | |
| View Idea Categories | √ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Only the Idea_Manager role for Platform Navigation. Requestors can view in Idea Portal. |
| Edit Other Ideas | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | ✓ | √ * | * Requestors who are mentioned as collaborators on idea can modify the idea as long as the idea hasn't been approved or rejected. Only an Idea_Manager can edit other ideas after it has been approved. |
| Delete My Ideas | \checkmark | ✓ | | | | | ✓ | ✓ | | ✓ | ✓ | | The Idea_User role can delete their own ideas. |
| Delete Other Ideas | ✓ | √ | | | | | √ | ✓ | | ✓ | ✓ | | The Idea_Manager role cannot delete others ideas. |
| Voting on Ideas | ✓ | ✓ | √ | √ | √ | ✓ | √ | ✓ | √ | √ | √ | √ | Requestors can vote on an idea. |
| Commenting on Ideas | ✓ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | Requestors can comment on ideas. |
| Idea Portal | ✓ | √ | ✓ | ✓ | ✓ | ✓ | √ | √ | ✓ | √ | √ | ✓ | |
| Convert idea to Demand/Project Convert idea to other entities such as epic, feature etc. | ✓ | √ √ | | | | | ✓ | ✓ | | √ | | | Both versions of idea are available to submit and vote on ideas. Also, the ability to convert an idea to a demand. Conversions to anything other than a demand/project requires ITBM Pro. |
| Machine Learning for finding similar/duplicate Ideas | | √ | | | | | | | | | | | |
| Create Demand | √ | <i>√</i> | √ | ✓ | √ | ✓ | 1 | √ | √ | √ | √ | √ * | * A requestor can create a new demand and also add other requestors as collaborators. A collaborator on a demand can modify the demand, as long as it hasn't been submitted to a demand manager. They can create a demand but only view the business case form. |
| Submit Demand | √ | √ | ✓ | √ | √ | √ | ✓ | > | ✓ | √ | ✓ | √ * | * A requestor can create/ submit a new demand and also add other requestors as collaborators, but only see business case form. A collaborator on a demand can modify the demand, as long as it hasn't been submitted to a demand manager. |
| Delete My Demand | √ | ✓ | | | | | ✓ | ✓ | √* | ✓ | | | * Only when in Draft state. Requestors can delete their own demand. |
| Edit My Demand | ✓ | ✓ | | | | | ✓ | ✓ | ✓ | ✓ | | √* | * A Requestor can edit until it's submitted. |
| Delete Others Demand | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Create Demand Task | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | The Demand_User role can edit demand tasks but not create new ones. Only Demand Manager role can create new. |
| Edit Demand Task | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | The Demand_User role can edit demand tasks but not create new ones. |
| View Stakeholders | √ | √ | | √ | | | √ | √ | √ | √ | | | The Demand User role can view. |
| Edit Stakeholders on Demand | √ | √ | | | | | ✓ | ✓ | | ✓ | | | Only the Demand_Manager role can create New Stakeholders. |
| Create Stakeholders on Portfolios | ✓ | ✓ | | | | | ✓ | √ | | ✓ | | | |
| Delete Stakeholders from Portfolios | ✓ | ✓ | | | | | ✓ | √ | | ✓ | | | |
| Create requirements | √ | ✓ | | | | | ✓ | ✓ | ✓ | ✓ | | | The Demand_User role and Demand_Manager role can create new requirements. |
| Create risks | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | The Demand_Manager Role can Create |
| Create issues | √ | ✓ | | | | | ✓ | ✓ | | ✓ | | | The Demand_User role can view. The Demand_Manager role can create. |
| Create decisions | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | The Demand_User role can view. The Demand_Manager role can create. The Demand_User role can view. The |
| Create actions | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | The Demand_User role can view. The Demand_Manager role can create. |
| Create request change (demand/project change) | √ | ✓ | | | | | ✓ | ✓ | | ✓ | | | The Demand_User role can view. The Demand_Manager role can create. |
| View RIDAC | √ | ✓ | | | | | ✓ | > | ✓ | ✓ | | | The Demand_User role can view. The Demand_Manager role can create. |
| Create resource plans | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | The Demand_Manager role can create. |
| Create cost plans | ✓ | \ | | | | | ✓ | √ | | ✓ | | | The Demand_Manager role can create. |
| Create benefit plans | ✓ | ✓ | | | | | √ | ✓ | | ✓ | | | The Demand_Manager role can create. |
| Create demand baseline | ✓ | √ | | | | | √ | ✓ | | √ | | | The Demand_Manager role can create. |
| Create demand budget | ✓ | √ | | | | | √ | √ | L , | √ | , | , | The Demand_Manager role can create. |
| Take Assessment to score Demand | √ | √ | | | | | √ | √ | ✓ | √ | ✓ | ✓ | |
| View Assessment Templates | \checkmark | ✓ | | | | | ✓ | √ | | ✓ | | | |



| Idea/ Innovation Management/ Demand | | | | | | | | | | | | | |
|--|----------|----------|----------|----------|----------|----|----------|----------|----------|----------|------|---|---|
| Management Cont'd | Std | Pro | APM | BS | TC | AT | Α | Р | W | ITSA | ITSM | R | Notes |
| Create Assessment Metric Categories, Metrics & | | | | | | | | | | | | | |
| Assessable Records | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Edit Assessment Metric Categories, Metrics & | | | | | | | | | | | | | |
| Assessable Records | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Delete Assessment Metric Categories, Metrics & | | | | | | | | | | | | | |
| Assessable Records | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Approve Demand (Move through Demand lifecycle) | √ | √ | | √ | | | √ | √ | | √ | | | |
| Convert Demand into a Project | √ | √ | | | | | √ | √ | | √ | | | |
| View My Demand in the Demand Workbench | √ | √ | | | | | ✓ | √ | | √ | | | |
| View Others Demand in the Demand Workbench | √ | √ | | | | | √ | √ | | √ | | | |
| Edit My Demand in the Demand Workbench | ✓ | √ | | | | | ✓ | √ | | √ | | | |
| Edit Others Demand in the Demand Workbench | √ | √ | | | | | ✓ | √ | | √ | | | |
| View the Demand Roadmap | √ | ✓ | | | | | ✓ | √ | | √ | | | |
| View the Demand Workbench | √ | √ | | | | | √ | √ | | √ | | | |
| View Reports for Ideas and Demand | √ | √ | | √ | | | ✓ | √ | √ | √ | | | |
| Create reports for Ideas and Demand | √ | √ | | | | | √ | √ | | √ | | | |
| Idea Manager Dashboard | | √ | | | | | | | | | | | |
| Find similar demands using Predictive Intelligence | | √ | | | | | | | | | | | |
| Alignment Planner Workspace | | | | | | | | | | | | | |
| (Roadmapping) | Std | Pro | APM | BS | TC | AT | Α | Р | W | ITSA | ITSM | R | Notes |
| View, edit, create roadmap on project & demand | √ | , | | , | | | | | | | | | |
| table | √ | ✓ | | ✓ | | | | | | | | | |
| View, edit, create roadmap on any ServiceNow table | | ✓ | | √ | | | | | | | | | |
| Post comments | ✓ | ✓ | | √ | | | | | | | | | |
| Add Attachments | ✓ | ✓ | | √ | | | | | | | | | |
| Share roadmap | ✓ | ✓ | | ✓ | | | | | | | | | |
| Time Cards | Std | Pro | APM | BS | TC | ΑT | Α | Р | W | ITSA | ITSM | R | Notes |
| View my Timesheets | √ | √ | √ | √ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | Any Fulfiller, 'User-type' license on the ServiceNow platform is entitled to use Time Cards. This excludes Agile Team, Business Stakeholder & Requestors. |
| View Others Time Sheets | ✓ | ✓ | ✓ | ✓ | √ | | ✓ | √ | | ✓ | ✓ | | |
| Edit my Timesheet | ✓ | ✓ | ✓ | | √ | | ✓ | √ | ✓ | ✓ | ✓ | | |
| Edit Others timesheets | ✓ | ✓ | ✓ | | √ | | ✓ | √ | | ✓ | ✓ | | |
| Create a timesheet | ✓ | ✓ | ✓ | | √ | | ✓ | √ | ✓ | ✓ | ✓ | | |
| Delete my timesheet | ✓ | ✓ | ✓ | | √ | | ✓ | √ | ✓ | ✓ | ✓ | | |
| Delete Others timesheets | ✓ | ✓ | ✓ | | √ | | ✓ | √ | | ✓ | ✓ | | |
| View My Timecards | ✓ | ✓ | ✓ | ✓ | √ | | ✓ | √ | ✓ | ✓ | ✓ | | |
| View Other Timecards | ✓ | > | ✓ | √ | > | | / | > | | \ | ✓ | | |
| Create my Timecards | ✓ | ✓ | ✓ | | ✓ | | ✓ | √ | √ | ✓ | ✓ | | |
| Delete my Timecards | ✓ | > | ✓ | | > | | / | > | √ | \ | ✓ | | |
| Delete Others Timecards | ✓ | ✓ | ✓ | | ✓ | | ✓ | ✓ | | ✓ | ✓ | | |
| | | | | | | | | | | | | | |



| Agile Development/ (SDLC) | Std | Pro | APM | BS | TC | AT | Α | Р | W | ITSA | ITSM | R | Notes |
|---|-----|--|--------|----|----|---|---|--|--|--|--|------------------|--|
| View Planning Boards (Sprint/Release Planning and | | | | | | | | , | | | | | |
| Task/Story Progress) | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Create a Product | | ✓ | | | | ✓ | ✓ | √ | ✓ | ✓ | | | |
| View all Products | | ✓ | | | | ✓ | ✓ | √ | ✓ | ✓ | | | |
| Edit a Product | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Delete a Product | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Add / Edit / Delete Releases on a Product | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Add / Edit / Delete Epics on a Product | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Add / Edit / Delete Stories to a Product | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Add / Edit / Delete Themes to a Product | | ✓ | | | | ✓ | ✓ | √ | ✓ | ✓ | | | |
| View Themes | | ✓ | | | | ✓ | ✓ | √ | ✓ | ✓ | | | |
| Create New Themes | | √ | | | | ✓ | ✓ | √ | ✓ | ✓ | | | |
| Edit Themes | | √ | | | | ✓ | ✓ | √ | ✓ | ✓ | | | |
| Delete Themes | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Add / Edit / Delete Epics on a Theme | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Add / Edit / Delete Stories on a Theme | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| View Epics | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Create Epics | | √ | | | | √ | √ | √ | √ | ✓ | | | |
| Edit Epics | | √ | | | | √ | √ | √ | √ | ✓ | | | |
| Delete Epics | | √ | | | | √ | √ | √ | √ | ✓ | | | |
| Add / Edit / Delete Stories on an Epic | | √ | | | | √ | √ | √ | √ | √ | | | |
| View Open Releases | | √ | | | | √ | √ | √ | √ | √ | | | |
| View Open Sprints | | √ | | | | √ | √ | √ | √ | √ | | | |
| View Open Epics | | √ | | | | √ | √ | √ | √ | √ | | | |
| View Open Stories | | √ | | | | ✓ | √ | √ | √ | √ | | | |
| Agile Development - Mobile | | √ | | | | ✓ | √ | √ | √ | √ | | | |
| Stories | Std | Pro | APM | BS | TC | ΑT | Α | Р | w | ΙΤςΔ | ITSM | R | Notes |
| View Stories | Jtu | . 10 √ | AI IVI | 55 | | √ | ⊼ | √ | ✓ | √ √ | 113101 | - | Notes |
| Create Stories | - | √ | | | | √ | √ | √ | √ | √ | | | |
| Edit Stories | - | √ | | | | √ ✓ | √ | √ √ | √ | √ | | | |
| Delete Stories | - | √ | | | | √ ✓ | √ | √ ✓ | √ | √ | | | |
| View My Stories | - | \ \ | | | | √ ✓ | √ | √ ✓ | √ √ | √ √ | | | |
| · | CAA | · | ADNA | BS | TC | _ | _ | | _ | | ITCD 4 | _ | Nata |
| Scrum Tasks | Sta | | APM | DO | ıc | AT | Α | P | _ | | ITSM | ĸ | Notes |
| View Scrum Tasks | - | √ | | | | √ | √ | √ | √ | √ | | | |
| View My Scrum Tasks | | √ | | | | √ | √ | √ | √ | √ | | | |
| Create Scrum Tasks | - | √ | | | | √ | √ | √ | √ | √ | | | |
| Edit Scrum tasks | | √ | | | | √ | √ | √ | √ | √ | | | |
| Delete Scrum Tasks | | √ √ | | | | √ | √ | √ | √ √ | √ √ | | | |
| Convert Scrum Task to Story | | √ | | | | \ | ✓ | ✓ | _ | √ | | | |
| Fuhanaanta | +- | Ė | | | | | | | | | | | |
| Enhancements | Std | Pro | APM | BS | TC | AT | Α | Р | W | ITSA | ITSM | R | Notes |
| Create New Enhancement | Std | Pro √ | APM | BS | TC | AT √ | A ✓ | P ✓ | W √ | ITSA √ | ITSM √ | R √ | Notes |
| Create New Enhancement View Open Enhancements | Std | √ √ | APM | BS | TC | √ √ | √ | √ √ | √ √ | √ √ | √ √ | ✓ | Notes |
| Create New Enhancement | Std | ✓ | APM | BS | TC | √ | √ | √ | √ | ✓ | ✓ | _ | Notes |
| Create New Enhancement View Open Enhancements | Std | √ √ | APM | BS | TC | √ √ | √ | √ √ | √ √ | √ √ | √ √ | ✓ | Notes |
| Create New Enhancement View Open Enhancements View My Enhancements Delete Enhancements | Std | \ \ \ \ \ | APM | BS | TC | \ \(\) | \ \ \ | \ \ \ \ | √ √ √ | \ \ \ \ \ | \ \(\) | ✓ | Anyone who Submits an enhancement can edit it, as |
| Create New Enhancement View Open Enhancements View My Enhancements Delete Enhancements Edit Enhancements | Std | \ \displaystyle{\sqrt{1}} \din | APM | BS | TC | \ \ \ \ \ \ \ \ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ | \ \displaystyle{\sqrt{1}} \din | \ \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} | \ \ \ \ \ | ✓ | |
| Create New Enhancement View Open Enhancements View My Enhancements Delete Enhancements Edit Enhancements Add / Edit / Delete Stories on an Enhancement | | \ \displaystyle{\sqrt{1}} \din | | | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ | \ \forall \end{array} | \ \displaystyle \int \displaystyle \int \displaystyle \int \displaystyle \dintfloot \displaystyle \displaystyle \dinttalpeq \displaystyle \displaystyle \displaystyle \dis | \ \frac{1}{\sqrt{1}} \frac{1}{\s | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | √ √ | Anyone who Submits an enhancement can edit it, as long as it hasn't been approved. |
| Create New Enhancement View Open Enhancements View My Enhancements Delete Enhancements Edit Enhancements Add / Edit / Delete Stories on an Enhancement Defects | | \ \displaystyle{\sqrt{1}} \din | APM | | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ | \ \displaystyle{\sqrt{1}} \din | \ \frac{1}{\sqrt{1}} \frac{1}{\s | \ \ \ \ \ | √ √ | Anyone who Submits an enhancement can edit it, as |
| Create New Enhancement View Open Enhancements View My Enhancements Delete Enhancements Edit Enhancements Add / Edit / Delete Stories on an Enhancement Defects Create New Defects | | √ √ √ √ Pro | | | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ | \ \forall \end{array} | \ \displaystyle \int \displaystyle \int \displaystyle \int \displaystyle \dintfloot \displaystyle \displaystyle \dinttalpeq \displaystyle \displaystyle \displaystyle \dis | \ \frac{1}{\sqrt{1}} \frac{1}{\s | √ √ √ √ ITSM | √ √ | Anyone who Submits an enhancement can edit it, as long as it hasn't been approved. |
| Create New Enhancement View Open Enhancements View My Enhancements Delete Enhancements Edit Enhancements Add / Edit / Delete Stories on an Enhancement Defects Create New Defects View Open Defects | | √ √ √ √ Pro √ | | | | ✓ ✓ ✓ ✓ AT | \$\frac{1}{2}\$ \$\frac{1}{2}\$ \$\frac{1}{2}\$ \$\frac{1}{2}\$ \$\frac{1}{2}\$ \$\frac{1}{2}\$ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \/ \/ \/ \/ \/ \/ \/ \/ \/ \/ \/ \/ \/ \ | √ √ √ √ ITSA √ | √ √ √ √ ITSM √ | √ √ R | Anyone who Submits an enhancement can edit it, as long as it hasn't been approved. |
| Create New Enhancement View Open Enhancements View My Enhancements Delete Enhancements Edit Enhancements Add / Edit / Delete Stories on an Enhancement Defects Create New Defects View Open Defects Edit Open Defects | | √ √ √ √ Pro √ √ | | | | ✓ ✓ ✓ ✓ ✓ AT | \$\frac{1}{2}\$ \$\frac | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \/ \/ \/ \/ \/ \/ \/ \/ \/ \/ \/ \/ \/ \ | √ √ √ √ √ ITSA √ √ | \frac{1}{\sqrt{1}} \frac{1}{\sqr | √ √ R | Anyone who Submits an enhancement can edit it, as long as it hasn't been approved. |
| Create New Enhancement View Open Enhancements View My Enhancements Delete Enhancements Edit Enhancements Add / Edit / Delete Stories on an Enhancement Defects Create New Defects View Open Defects | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | | ✓ ✓ ✓ ✓ AT ✓ ✓ | \$\frac{1}{2}\$ \$\frac{1}{2}\$ \$\frac{1}{2}\$ \$\frac{1}{2}\$ \$\frac{1}{2}\$ \$\frac{1}{2}\$ | \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{2}} \frac{1}{\sqr | \/ \/ \/ \/ \/ \/ \/ \/ \/ \/ \/ \/ \/ \ | √ √ √ √ / ITSA √ √ | \frac{1}{\sqrt{1}} \frac{1}{\sqr | √ ✓ R √ | Anyone who Submits an enhancement can edit it, as long as it hasn't been approved. |
| Create New Enhancement View Open Enhancements View My Enhancements Delete Enhancements Edit Enhancements Add / Edit / Delete Stories on an Enhancement Defects Create New Defects View Open Defects Edit Open Defects | | √ √ √ √ Pro √ √ | | BS | TC | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | √ √ √ √ √ ITSA √ √ | \frac{1}{\sqrt{1}} \frac{1}{\sqr | √ √ R | Anyone who Submits an enhancement can edit it, as long as it hasn't been approved. |
| Create New Enhancement View Open Enhancements View My Enhancements Delete Enhancements Edit Enhancements Add / Edit / Delete Stories on an Enhancement Defects Create New Defects View Open Defects Edit Open Defects Delete Defects Delete Defects | Std | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | BS | TC | ✓ ✓ ✓ ✓ AT ✓ ✓ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{2}} \frac{1}{\sqr | \frac{1}{\sqrt{1}} \frac{1}{\sqr | √ √ √ √ √ ITSA √ √ √ | \frac{1}{\sqrt{1}} \frac{1}{\sqr | √ | Anyone who Submits an enhancement can edit it, as long as it hasn't been approved. |
| Create New Enhancement View Open Enhancements View My Enhancements Delete Enhancements Edit Enhancements Add / Edit / Delete Stories on an Enhancement Defects Create New Defects View Open Defects Edit Open Defects Delete Defects View My Defects View My Defects | Std | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | APM | BS | TC | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \frac{1}{\sqrt{1}} \frac{1}{\sqr | √ √ √ √ √ ITSA √ √ √ | \frac{1}{\sqrt{1}} \frac{1}{\sqr | √ | Anyone who Submits an enhancement can edit it, as long as it hasn't been approved. Notes Notes Notes Only entitled by ITBM Pro, no other applicable licensing |
| Create New Enhancement View Open Enhancements View My Enhancements Delete Enhancements Edit Enhancements Add / Edit / Delete Stories on an Enhancement Defects Create New Defects View Open Defects Edit Open Defects Delete Defects View My Defects View My Defects Create Scrum Programs for Agile 2.0 Create Scrum Programs | Std | \frac{1}{\sqrt{1}} \frac{1}{\sqr | APM | BS | TC | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \frac{1}{\sqrt{1}} \frac{1}{\sqr | √ √ √ √ √ ITSA √ √ √ | \frac{1}{\sqrt{1}} \frac{1}{\sqr | √ | Anyone who Submits an enhancement can edit it, as long as it hasn't been approved. Notes Notes |
| Create New Enhancement View Open Enhancements View My Enhancements Delete Enhancements Edit Enhancements Add / Edit / Delete Stories on an Enhancement Defects Create New Defects View Open Defects Edit Open Defects Delete Defects View My Defects View My Defects Scrum Programs for Agile 2.0 Create Scrum Programs Edit Scrum Programs | Std | \frac{1}{\sqrt{1}} \frac{1}{\sqr | APM | BS | TC | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \frac{1}{\sqrt{1}} \frac{1}{\sqr | √ √ √ √ √ ITSA √ √ √ | \frac{1}{\sqrt{1}} \frac{1}{\sqr | √ | Anyone who Submits an enhancement can edit it, as long as it hasn't been approved. Notes Notes Notes Only entitled by ITBM Pro, no other applicable licensing |
| Create New Enhancement View Open Enhancements View My Enhancements Delete Enhancements Edit Enhancements Add / Edit / Delete Stories on an Enhancement Defects Create New Defects View Open Defects Edit Open Defects Delete Defects View My Defects Scrum Programs for Agile 2.0 Create Scrum Programs Edit Scrum Programs Create Epic Backlogs | Std | \frac{1}{\sqrt{1}} \frac{1}{\sqr | APM | BS | TC | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \frac{1}{\sqrt{1}} \frac{1}{\sqr | √ √ √ √ √ ITSA √ √ √ | \frac{1}{\sqrt{1}} \frac{1}{\sqr | √ | Anyone who Submits an enhancement can edit it, as long as it hasn't been approved. Notes Notes Notes Only entitled by ITBM Pro, no other applicable licensing |
| Create New Enhancement View Open Enhancements View My Enhancements Delete Enhancements Edit Enhancements Add / Edit / Delete Stories on an Enhancement Defects Create New Defects View Open Defects Edit Open Defects Delete Defects View My Defects Scrum Programs for Agile 2.0 Create Scrum Programs Edit Scrum Programs Create Epic Backlogs Edit Epic Backlogs | Std | \frac{1}{\sqrt{1}} \frac{1}{\sqr | APM | BS | TC | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \frac{1}{\sqrt{1}} \frac{1}{\sqr | √ √ √ √ √ ITSA √ √ √ | \frac{1}{\sqrt{1}} \frac{1}{\sqr | √ | Anyone who Submits an enhancement can edit it, as long as it hasn't been approved. Notes Notes Notes Only entitled by ITBM Pro, no other applicable licensing |
| Create New Enhancement View Open Enhancements View My Enhancements Delete Enhancements Edit Enhancements Add / Edit / Delete Stories on an Enhancement Defects Create New Defects View Open Defects Edit Open Defects Delete Defects View My Defects View My Defects Scrum Programs for Agile 2.0 Create Scrum Programs Edit Scrum Programs Create Epic Backlogs Edit Epic Backlogs Update Scrum Program Plans | Std | \frac{1}{\sqrt{1}} \frac{1}{\sqr | APM | BS | TC | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \frac{1}{\sqrt{1}} \frac{1}{\sqr | √ √ √ √ √ ITSA √ √ √ | \frac{1}{\sqrt{1}} \frac{1}{\sqr | √ | Anyone who Submits an enhancement can edit it, as long as it hasn't been approved. Notes Notes Notes Only entitled by ITBM Pro, no other applicable licensing |
| Create New Enhancement View Open Enhancements View My Enhancements Delete Enhancements Edit Enhancements Add / Edit / Delete Stories on an Enhancement Defects Create New Defects View Open Defects Edit Open Defects Delete Defects View My Defects Scrum Programs for Agile 2.0 Create Scrum Programs Edit Scrum Programs Create Epic Backlogs Edit Epic Backlogs | Std | \frac{1}{\sqrt{1}} \frac{1}{\sqrt{2}} \frac{1}{\sqr | APM | BS | TC | \frac{\frac}}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fracc}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}} | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | / / / / / / / / / / / / / / / / / / / | \frac{1}{\sqrt{1}} \frac{1}{\sqr | \frac{1}{\sqrt{1}} \frac{1}{\sqr | √ R R | Anyone who Submits an enhancement can edit it, as long as it hasn't been approved. Notes Notes Notes Only entitled by ITBM Pro, no other applicable licensing |



| Integrations for Asile 2.0 | C+4 | Dro | APM | ВC | TC | ΛТ | Α | Р | 14/ | ITCA | ITSM | D | Notes |
|--|-----|----------|----------|----|----|----------|--------------|----------|----------|----------|-------|----|---|
| Integrations for Agile 2.0 | 310 | | APIVI | D3 | 10 | AI | A | _ | VV | IIJA | 11311 | N. | |
| Jira Integration for Agile 2.0 | | √ √ | | | | | | | | | | | Only entitled by ITBM Pro, no other license entitles. |
| ADO Integration for Agile 2.0 | ١ | • | | | | | | _ | | | | _ | Only entitled by ITBM Pro, no other license entitles. |
| Scaled Agile Framework (SAFe) | Std | Pro | APM | BS | TC | AT | Α | Р | W | | ITSM | R | Notes |
| Create SAFe Portfolio | | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| View SAFe Portfolio | | ✓ | | | | | ✓ | ✓ | ✓ | ✓ | | | |
| Edit SAFe Portfolio | | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Delete SAFe Portfolio | | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Create SAFe Program | | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| View SAFe Program | | ✓ | | | | | ✓ | ✓ | ✓ | ✓ | | | |
| Edit SAFe Program | | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Delete SAFe Program | | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Create SAFe Group | | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Create SAFe Epic | | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| View SAFe Epic | | ✓ | | | | | ✓ | ✓ | ✓ | ✓ | | | |
| Edit SAFe Epic | | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Delete SAFe Epic | | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Create Program Increment | | ✓ | | | | | \checkmark | ✓ | | ✓ | | | |
| View Program Increment | | ✓ | | | | | \checkmark | ✓ | ✓ | ✓ | | | |
| Edit Program Increment | | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Delete Program Increment | | ✓ | | | | | \checkmark | √ | | ✓ | | | |
| Create SAFe Feature | | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| View SAFe Feature | | ✓ | | | | | ✓ | ✓ | ✓ | ✓ | | | |
| Edit SAFe Feature | | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Delete SAFe Feature | | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Create SAFe Story | | ✓ | | | | | ✓ | ✓ | ✓ | ✓ | | | |
| View SAFe Story | | ✓ | | | | | ✓ | ✓ | > | ✓ | | | |
| Edit SAFe Story | | ✓ | | | | | ✓ | ✓ | ✓ | ✓ | | | |
| Delete SAFe Story | | ✓ | | | | | \checkmark | ✓ | ✓ | ✓ | | | |
| Create SAFe Sprint | | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| View SAF Sprint | | ✓ | | | | | ✓ | ✓ | ✓ | ✓ | | | |
| Edit SAFe Sprint | | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Delete SAFe Sprint | | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| PA Dashboards & Reports for SAFe | Std | Pro | APM | BS | TC | AT | Α | Р | W | ITSA | ITSM | R | Notes |
| PA Content Pack for Essential SAFe | | √ | | | | | ✓ | √ | | | | | Not entitled by Agile Team. |
| Test Management | Std | Pro | APM | BS | TC | ΔΤ | Α | Р | w | ITSΔ | ITSM | R | Notes |
| View My Tests | - | · · · | 7 11 101 | | | <i>√</i> | <i>√</i> | ✓ | √ | √ | | | 140465 |
| View All Tests | | √ | | | | √ | · ✓ | √ | √ | √ | | | |
| Create Test Cases | | √ | | | | √ | √ | √ | _ | √ ✓ | | | |
| Edit Test Cases | | √ | | | | √ | √ | √ | | √ | | | |
| Delete Test Cases | | √ | | | | √ | √ | √ | | √ ✓ | | | |
| Add Tests to Test Cases | | √ | | | | √ | √ | √ | | √ | | | |
| Delete Tests from Test Cases | | √ | | | | √ | √ | √ | | √ | | | |
| Add Test Cases to a Test Plan | | √ | | | | √ | √ | √ | | √ | | | |
| Create Test Suites | | , | | | | √ | √ | , | | , | | | |
| Edit Test Suites | 1 | √ √ | | | | √ | √ | ✓ ✓ | | √ √ | | | |
| View Test Suites | 1 | √ ✓ | | | | √ √ | √ | ✓ | √ | √ | | | |
| Delete Test Suites | 1 | √ | | | | √ √ | √ | √ | | √ | | | |
| Add Test Suites to a Test Plan | | √ ✓ | | | | √ | √ | ✓ ✓ | | √ | | | |
| Create Test Plans | | √ | | | | √ | √ | √ | | √ | | | |
| Edit Test Plans | | ✓ ✓ | | | | ✓ ✓ | ✓ ✓ | ✓ ✓ | | ✓ ✓ | | | |
| | | ✓ ✓ | | | | ✓ ✓ | ✓ ✓ | ✓ ✓ | √ | ✓ ✓ | | | |
| View Test Plans | | ✓ ✓ | | | | ✓ ✓ | ✓ ✓ | ✓ ✓ | V | ✓ ✓ | | | |
| Doloto Tost Plans | | · V | | | | V | V | V | | | | | |
| Delete Test Plans | | / | | | | / | / | / | | / | | | |
| Create Test Environments | | √ / | | | | √ / | √ | √ | | √ / | | | |
| Create Test Environments Edit Test Environments | | ✓ | | | | √ | ✓ | ✓ | | √ | | | |
| Create Test Environments | | | | | | | | | | | | | |



| Test Management 2.0 | Std | Pro | APM | BS | TC | AT | Α | Р | W | ITSA | ITSM | R | Notes |
|----------------------------------|----------|----------|------------|----|----|----|----------|----------|------------|----------|----------|---|--|
| Create Test Cases | | ✓ | | | | ✓ | √ | ✓ | ✓ | √ | | | |
| Edit Test Cases | | √ | | | | ✓ | ✓ | ✓ | ✓ | √ | | | |
| Delete Test Cases | | √ | | | | ✓ | ✓ | ✓ | ✓ | √ | | | |
| Create Test Case Versions | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Edit Test Case Versions | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Delete Test Case Versions | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Execute Test Run | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Create Test Suites | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Edit Test Suites | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Delete Test Suites | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Create Test Plans | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | | | |
| Edit Test Plans | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | | | |
| Delete Test Plans | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | | | |
| Create Test Cycles | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | | | |
| Edit Test Cycles | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | | | |
| Delete Test Cycles | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | | | |
| Create Test Execution Suite | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | | | |
| Edit Test Execution Suite | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | | | |
| Delete Test Execution Suite | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | | | |
| Create Test Assignments | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | | | |
| Edit Test Assignments | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | | | |
| Delete Test Assignments | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | | | |
| Be assigned to a Test Assignment | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Release Management v2 | Std | Pro | APM | BS | TC | ΑT | Α | Р | W | ITSA | ITSM | R | Notes |
| Create Product | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | ✓ | | Release Management is entitled by any and all, ITBM or ITSM Licensing. |
| Update/Delete Product | √ | √ | | | | | √ | √ | | √ | √ | | nom electioning. |
| View Product | √ | √ | | | | | √ | √ | √ | √ | √ | | |
| Create Release | √ | √ | | | | | √ | √ | | √ | √ | | |
| Update/Delete Release | √ | √ | | | | | √ | √ | | √ | √ | | |
| View Release | √ | √ | | | | | √ | √ | √ | √ | √ | | |
| Create Release Phase | √ | √ | | | | | √ | √ | | √ | √ | | |
| Update/Delete Release Phase | √ | √ | | | | | √ | √ | | √ | √ | | |
| View Release Phase | ✓ | √ | | | | | √ | √ | √ | ✓ | √ | | |
| Create Task | √ | √ | | | | | √ | √ | | √ | √ | | |
| Update/Delete Task | ✓ | √ | | | | | √ | √ | | ✓ | √ | | |
| View Release Task | √ | ✓ | | | | | ✓ | ✓ | √ * | √ | √ | | * A Worker needs the ITIL role to update tasks. This will require an ITSM licensing and is not configured this way out of the box. |



| | | | | | | | | | | | | 1 | |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|
| Enterprise Release Management | Std | Pro | APM | BS | TC | ΑT | | Р | W | | ITSM | R | End of Life -> Release Management v2 replaces. |
| Create an Enterprise Release | | ✓ | | | | | ✓ | ✓ | | ✓ | | | |
| Edit an Enterprise Release | | ✓ | | | | | ✓ | ✓ | | √ | | | |
| View an Enterprise Release | | √ | | ✓ | | | √ | ✓ | ✓ | √ | | | |
| Delete an Enterprise Release | | √ | | | | | √ | √ | | √ | | | |
| Create an Enterprise Release Phase | | √ | | | | | √ | √ | | √ | | | |
| Edit an Enterprise Release Phase | | √ | | , | | | √ | √ | , | √ | | | |
| View an Enterprise Release Phase | | √ | | ✓ | | | √ | √ | ✓ | √ | | | |
| Delete an Enterprise Release Phase | | √ √ | | | | | √ √ | √ √ | | √ √ | | | |
| Create an Enterprise Release Task | | ✓ ✓ | | | | | ✓ ✓ | ✓ ✓ | √ | ✓ ✓ | | | |
| Edit an Enterprise Release Task View an Enterprise Release Task | | √ | | √ | | | √ | ✓ ✓ | ✓ ✓ | √ | | | |
| Delete an Enterprise Release Task | | √ | | V | | | √ | √ | | √ | | | |
| Create a Deployment Pipeline | | √ | | | | | √ | √ | | √ | | | |
| Edit a Deployment Pipeline | | √ | | | | | √ | √ √ | | √ | | | |
| View a Deployment Pipeline | | √ | | √ | | | √ | √ | √ | √ | | | |
| Delete a Deployment Pipeline | | √ | | | | | √ | √ | _ | √ | | | |
| Create a Deployment Pipeline Phase | | √ | | | | | √ | √ | | √ | | | |
| Edit a Deployment Pipeline Phase | | √ | | | | | √ | √ √ | | √ | | | |
| View a Deployment Pipeline Phase | | √ | | √ | | | √ | √ | √ | √ | | | |
| Delete a Deployment Pipeline Phase | | √ √ | | | | | √ | √ √ | | √ | | | |
| Edit a Deployment Task | | √ | | | | | √ | √ | √ | √ | | | |
| Create a Product Release | | √ | | | | | √ | √ | | √ | | | |
| Edit a Product Release | | √ | | | | | √ | √ | | √ √ | | | |
| View a Product Release | | √ | | √ | | | √ | √ | | \ \ | | | |
| Delete a Product Release | | √ | | | | | √ _/ | √ | | | | | |
| Application Portfolio Management | | | | | | | | | | | | | |
| Not entitled w/ Service Strategy licensing , only ITBM | Std | Pro | APM | BS | TC | ΑT | Α | Р | W | ITSA | ITSM | R | Notes |
| | | | √ | √ | | | √ | √ | | | | | |
| View App Indicator Scores and App scores Create/update/delete App Categories | | | √ | V | | | √ | | | | | | |
| Create/update/delete App Categories Create/update/delete App Families | | | ✓ ✓ | | | | √ | | | | | | |
| Create/update/delete App Families | | | · · | | | | | | | | | | ITSM and Asset users can update business apps but |
| Create/update/delete Business Processes | | | ✓ | | | | ✓ | | | 1 | 1 | | cannot create (on-board) or delete (decommission) when APM Plug-in, is installed. If not installed full CRUD entitlement exists. |
| Create/update/delete App indicators | | | ✓ | | | | ✓ | | | | | | |
| Read App indicators | | | ✓ | ✓ | | | ✓ | | | | | | |
| Create/update/delete App Score Profile | | | ✓ | | | | ✓ | | | | | | |
| Create/update/delete bubble charts configurations | | | ✓ | | | | ✓ | | | | | | |
| Create/update/delete APM Programs | | | ✓ | | | | ✓ | | | | | | |
| Create/update/delete Goals | | | ✓ | | | | ✓ | | | | | | |
| Create/update/delete Demands | | | ✓ | | | | ✓ | ✓ | | | | | |
| Access the APM Service Portal pages for Program | | | | | | | | | | | | | |
| Navigation, Category Analysis, Bubble Chart view & | | | ✓ | | | | ✓ | | | | | | |
| Application Comparisons | | | | | | | | | | | | | |
| View App 360 PA dashboard | | | ✓ | ✓ | | | ✓ | √ | | | | | |
| APM Administration | | | ✓ | | | | ✓ | \ | | | | | |
| Create Business Applications | | | ✓ | | | | √ | | | | | | Only the APM_Analyst role can create. APM_User role |
| ., | | | | | | | | | | | | | cannot create. |
| Update a Business Application | | | ✓ | | | | ✓ | ✓ | | ✓ | ✓ | | Both APM roles can update. |
| Delete a Business Application | | | ✓ | | | | ✓ | | | | | | Only APM_Analyst role can delete, APM_User role cannot. |
| Read Business Applications | √ | / | √ | Requestors+ can read a Business Application. |
| View App Landscape reports and dashboards | | | √ √ | <u>√</u> | V | · · | √ | √ √ | · · | | | · · | Requestors Carrieda a Dusiness Application. |
| Create/edit/delete Capability Indicators | | | √ | • | | | √ | | | | | | |
| Create/edit/delete Capability Indicator Scores | | | √ | | | | √ | | | | | | |
| View Technology Lifecycles | | | √ | | | | √ | √ | | | | | |
| Read Software Model Risk Parameter Score | | | √ | | | | √ | √ | | | | | |
| Read Application Model Risks | | | √ | | | | √ | √ √ | | | | | |
| Read Business Service Risks | | | √ | | | | √ | √ | | | | | |
| Create/update/delete Application Service Software | | | | | | | | | | | | | |
| Model Mapping | | | ✓ | | | | ✓ | ✓ | | | | | |
| Create new request via service catalog to register a | | | | | | | | | | | | | |
| new Business Application | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Requestors+ can request. |
| Create new request via service catalog for | | | | | | | | | | | | | |
| architecture review OR to retire a business | | | ✓ | | | | √ | √ | | | | | Only APM_Users can raise a request. |
| application | | | | | | | | | | | | | |
| Business Planning Portal | √ | √ | √ | √ | √ | / | √ | √ | √ | √ | √ | √ | |
| 2 do 200 r latining r ortal | ď | , | , | , | , | , | · | , | , | , | | , | |



| Suite | Арр | ITBM - Platform Role | Description | Roles Contained within the Platform Role | Legacy License | NY or Later Licensing |
|-------|------------------------------|---|---|---|----------------|--------------------------|
| | | it_project_portfolio_user Note: formerly named project_portfolio_user - PLS, NO LONGER USE | User who can view IT Portfolio Project records. | | Worker | Standard |
| | | it_project_user Note: formerly named project_user - PLS, NO LONGER USE | Can only modify a few Project form fields, such as journal fields. Can also modify additional fields on the Project Task form, such as Time constraint and State. This excludes being able to edit Journal fields on a Project. | baseline_user, demand_user, it_demand_user, it_project_portfolio_user, it_project_user, planning_console_user, pps_resource, project_portfolio_user, project_user, task_editor, timecard_user | Worker | Standard |
| | | it_project_manager Note: formerly named project_manager - PLS, NO LONGER USE | Has configuration access rights to all Project application features and functionality. Scrum roles are added when Agile 2.0 plugin is installed | baseline_user, cmdb_read, demand_manager, demand_user, financial_mgmt_user, fiscal_calendar_user, idea_manager, investment_user, it_demand_manager, it_demand_user, it_project_portfolio_user, it_project_user, pa_viewer, planning_console_user, pps_resource, project_manager, project_portfolio_user, project_user, rate_model_user, report_group, report_user, resource_user, rm_doc_admin, rm_product_admin, rm_release_scrum_admin, rm_story_admin, rm_task_admin, rm_story_admin, srcum_user, skill_user, task_editor, timecard_approver, timecard_user, timeline_user, view_changer | Planner | Standard |
| | | it_portfolio_manager Note: formerly named project_portfolio_user - PLS, NO LONGER USE | Portfolio Manager will have complete access to all Portfolios. | it_demand_manager, it_demand_user, it_project_manager, it_project_portfolio_user it_project_user, pa_viewer, portfolio_manager, resource_user | Planner | Standard |
| | nent | it_program_manager | Program managers have access to all programs. | it_demand_user, it_project_portfolio_user, it_project_user, pa_viewer, portfolio_manager, resource_user, | Planner | Standard |
| | lanage | timeline_admin | Timeline Visualization Admin. | timeline_user, project_manager, itil* | Planner | Standard |
| | olio M | timeline_user | Timeline Visualization User. | | Planner | Standard |
| | Project Portfolio Management | it_pps_admin | Admin role to manage pps configuration entities such as cost type definition, planning console configuration etc. | it_program_manager it_portfolio_manager pps_admin timeline_admin it_demand_manager it_project_manager it_rate_model_admin | Planner | Standard |
| | | it_rate_model_admin Do not use rate_model_admin | Manages rate models and rate lines. Has all privileges within rate model, including configuring attributes, export and import of rate lines, and administration. | rate_model_user | Planner | Standard |
| | | rate_model_user | View rate model and rate lines. | | Planner | Standard |
| | | sn_ppm_read | Read only roles for Project Portfolio Suite. | | n/a | Business Stakeholder |
| | | sn_ppm_finance_read | Read only roles for Project Portfolio Suite with financials. | | n/a | Business Stakeholder |
| | | sn_collab_common.collab_owner | Users with this role have complete create, read, update, and delete access to the Entity Channel table. This role is automatically assigned to project managers. | sn_collab_common.collab_user | Planner | Standard |
| | | tsp1-5_demand_manager, tsp1- 5_demand_user, tsp1- 5_portfolio_manager, tsp1- 5_pps_admin, tsp1- 5_project_manager, tsp1- 5_project_manager, tsp1- 5_project_user, tsp1- 5_rate_model_admin, tsp1- 5_timeline_admin, tsp1- 5_timeline_user | The roles mirror the roles given for PPM. Roles created when using Team Spaces - Only 5 are allowed and that signifies the "1-5" in the roles. All roles are dupliacted 5 times for the 5 different temaspaces. | Roles contained also mirror the related roles when not using Team Spaces. | Planner | Standard |
| | | sn_collab_common.collab_user | This role is automatically assigned to project managers and task assignees. This role is automatically assigned to project managers and task assignees. | | Worker | Standard |



| | Арр | ITBM - Platform Role | Description | Roles Contained | Legacy License | NY or Later |
|-------------------------|------------------------------------|---|---|---|---------------------|-----------------------------------|
| | nent | resource_manager | Users with this role can review resource plans and allocate resources to tasks. | resource_user | Planner | Standard |
| | Resource Management | resource_user | Users with this role can create resource plans and request resources to make soft bookings. Project managers are typically given this role. Resource users cannot make changes to plans in the Allocated state. | itil* | Planner | Standard |
| Project Portfolio Suite | Demand Management | it_demand_manager Note: formerly named demand_manager - PLS, NO LONGER USE | Can access all the modules of the Demand Management application. Additional Roles Contained include: timeline_user &view_changer | baseline_user, cmdb_read, demand_manager, demand_user, fiscal_calendar_user, idea_manager, investment_user, it_demand_manager, it_demand_user, it_project_portfolio_user, it_project_user, planning_console_user, pps_resource, project_portfolio_user, project_user, rate_model_user, report_group, report_user, resource_user, rm_doc_admin, rm_epic_admin, rm_product_admin, rm_elease_scrum_admin, rm_scrum_task_admin, rm_story_admin, rm_task_admin, rm_test_admin, srum_admin, scrum_user, skill_user, task_editor, timecard_user, timeline_user | Planner | Standard |
| | | it_demand_user Note: formerly named demand_user - PLS, NO LONGER USE | Can access the Demand and Stakeholders modules of the Demand Management application. | itil*, baseline_user, demand_user, it_demand_user, pps_resource | Worker | Standard |
| | | idea_manager | Manage ideas and convert Idea into project, demand. | | Planner | Standard |
| | ement | cf_comment_admin | Management comment related tables. | | Planner | Standard |
| | Janag | cf_feedback_admin | Manage feedback (votes and likes) related tables. | | Planner | Standard |
| | In novation N | idea_admin | Manage Idea portal settings and act as super user for Ideas, feedback and comments. | idea_manager, cf_comment_admin, cf_feedback_admin | Planner | Standard |
| | - | idea_manager_professional | Convert ideas into agile entities such as Feature, Epic etc. | | n/a | Professional |
| | nager oard | idea_manager | Manage ideas and convert Idea into project, demand. | | n/a | Standard |
| | Idea Manager Dashboard | sn_ppm_read idea_manager_professional | View Idea Manager Dashboard. Convert ideas into agile entities such as Feature, Epic etc. | | n/a n/a | Business Stakeholder Professional |
| | iner napping) | sn_roadmap_plng.roadmap_admin | Manage all roadmaps & Manage roadmap preferences. | | n/a | Standard |
| | Aligment Planner space (Roadmap | sn_roadmap_plng.roadmap_editor | Create, edit, view roadmaps, Share roadmaps, Post comments & Add attachments. | | n/a | Standard |
| | Ali | sn_roadmap_plng.roadmap_viewer | View roadmaps, Post comments & Add attachements. | | n/a | Standard |
| | cial Planning | itfm_plan_analyst | Define Budget Definition, define structure, generate Budget Key, assign Planner to Each Key. | itfm_planner, it_project_manager, fiscal_calendar_user | Planner | Standard |
| | Finan | itfm_planner | Work on Plan, create Plan Items, promote plans. | fiscal_calendar_user | Planner | Standard |
| | Scenario Planning for PPM | it_portfolio_manager | Plan portfolio investments using scenarios, analyze financials, resource usage and strategic alignment of projects and demands within a portfolio, approve and convert demands, confirm resources. | it_demand_user, it_demand_manager, it_project_user, portfolio_manager, it_project_portfolio_user, resource_user, it_project_manager | n/a | Standard |
| | Scenario | resource_user | Review resource utilization in the portfolio workbench. | skill_user report_group | n/a | Standard |
| | nd Tracking | it_project_manager | Align projects to strategies and goals, set allocation percentages, update financial breakdowns. | project_user rate_model_user time_card_approver financial_mgmt_user view_changer | n/a | Standard |
| | PPM Strategic Spend Tracking | it_demand_manager | Align demands to strategies and goals, set allocation percentages, update financial breakdowns. | rate_model_user demand_user project_user | n/a | Standard |
| | Ndd | business_planner | Use Strategic Spend Tracking Dashboard and strategy and goal records to analyze the financials contributing to these strategic objectives. | | No License Required | No License Required |



| Арр | ITBM - Platform Role | Description | Roles Contained | Legacy License | NY or Later |
|---------------------|---|--|--|----------------|-----------------------------|
| | investment_admin Setup funding entities and investment roles for users. fisca | | fiscal_calendar_admin | n/a | Professional |
| ding | investment_planner Creates, adds funds and modifies Top investment. investment_user | | investment_user | n/a | Professional |
| Investment Funding | Creates investments, requests funds from parent entities, allocate funds to child investments and record actuals. | | fiscal_calendar_user | n/a | Professional |
| | sn_investment_funding_read Business stakeholder role, can read investments, funds and requests. pa_viewer | | pa_viewer | n/a | Professional |
| ent | Create/Update/detele products, releases, release phases and tasks. Create/Update/detele products, releases, release phases and tasks. rm_product_admin rm_release_admin rm_release_phase_admin rm_feature_admin rm_task_admin | | Planner | Standard | |
| Release Management | release_v2_manager Can Manage all aspects of a Group's Release Management v2 Product's Releases, Features, Tasks. | | Planner | Standard | |
| Rele | release_v2_user | Views products, releases, release phases and tasks. | rm_product_user rm_release_user rm_release_phase_user rm_feature_user rm_task_user | Worker | Standard |
| | timecard_admin | Write access to all time cards, otherwise users only have access to their own timecards. | timecard_user, timecard_approver | Planner | Time Card v2 or Standard |
| Time Card | timecard_user Create time cards for himself. View their own time cards. | | | Worker | Time Card v2 or Standard |
| | timecard_approver | Approves time cards. | timecard_user | Worker | Time Card v2 or Standard |
| Test | m test manager Inrivileges within test management including planning - | | tm_tester feature_user | Planner | Agile Team |
| · | tm_tester | Executes test cases and tests. | itil*, feature_user | Worker | Agile Team |
| ment 2.0 | sn_test_management.tester | Can create and manage test cases and execute test cases. | | Worker | Agile Team |
| Test Management 2.0 | sn_test_management.test_manager | Can create and manage test suites, test plans, test cycles, and test execution suites. Can also make test assignments for test executions. | sn_test_management.tester | Planner | Agile Team |



| | Арр | ITBM - Platform Role | Description | Roles Contained within the Platform Role | Legacy License | NY or Later Licensing | |
|---------------------------|--------------------------|-----------------------------------|---|--|----------------|--------------------------|--|
| | | scrum_release_planner | Create, edit, and delete stories, Add scrum tasks, Update and delete releases, Move stories between a product backlog and a release backlog & Move stories between release backlogs. | scrum_user scrum_story_creator | Worker | Agile Team | |
| | | scrum_sprint_planner | Create, update, and delete stories, Add scrum tasks, Update and delete sprints, Move stories between a release backlog and a sprint backlog & Move stories between sprint backlogs. | scrum_story_creator scrum_release_planner scrum_user | Worker | Agile Team | |
| | | scrum_product_owner | Move stories between the product backlog and releases. Creates and manages themes, epics, stories, products, releases, and teams. | scrum_release_planner scrum_story_creator scrum_user | Worker | Agile Team | |
| | | | Confers read-only rights to the Agile Development application. Can view all elements of agile, but cannot create, edit, or manage records of any type. | cmdb_read | Worker | Agile Team | |
| | | scrum_story_creator | Scrum story creator role. | rm_scrum_task_admin scrum_user | Worker | Agile Team | |
| | orc) | scrum_story_editor | Scrum story editor role. | rm_scrum_task_admin scrum_user | Worker | Agile Team | |
| | opment (St | scrum_task_admin | Credit, edit, and delete scrum tasks. | scrum_user | Worker | Agile Team | |
| Enterprise Agile Planning | Agile Development (SDLC) | scrum_team_member | Scrum team member role. | scrum_user scrum_story_creator scrum_story_editor rm_defect_admin rm_enhancement_admin rm_scrum_task_admin | Worker | Agile Team | |
| Enterprise A | | | Has full control on the Agile Development 2.0 application | rm_doc_admin rm_product_admin rm_task_admin rm_test_admin rm_story_admin rm_epic_admin rm_release_scrum_admin rm_sprint_admin scrum_user | Worker | Agile Team | |
| | | scrum_master | Create, update, and delete stories & Add scrum tasks. | scrum_sprint_planner scrum_story_creator scrum_user | Worker | Agile Team | |
| | | | Create and update Epic Backlogs, Scrum Programs & Scrum Program plans. | program_manager scrum_product_owner scrum_master | Planner | Professional | |
| | | | Overall admin of the SAFe Application. Can create SAFe Groups and SAFe Programs. | safe_art_user safe_product_owner safe_scrum_master | Planner | Professional | |
| | | safe_product_owner | Can create and manage Stories. | safe_story_creator | Planner | Professional | |
| | | safe_scrum_master | Can create and manage Sprints and Stories. | safe_story_creator | Planner | Professional | |
| | SAFe | Isare art user | Can create and manage Epics, Features, Program Increments, and Stories. | safe_story_creator | Planner | Professional | |
| | | | Scrum team member. | none | Worker | Professional | |
| | | safe_story_creator | Roles for creating Stories. | safe_story_editor safe scrum user | Worker | Professional | |
| | | | Role for editing and deleting Stories. | rm_scrum_task_admin | Worker | Professional | |
| | | | Maintain Portfolio backlog and edit, create, and delete SAFe epics, features, and stories. | safe_art_user | Planner | Professional | |
| | | sn_erm.enterprise_release_manager | Create and manage Enterprise Releases. | sn_erm.enterprise_release_user | Planner | Professional | |
| | Management | sn_erm.enterprise_release_user | Can access the Enterprise Release module and can be assigned Enterprise Release tasks. | task_editor | Worker | Professional | |
| | | sn_erm.deployment_pipeline_manage | Create and mange Deployment Pipelines. | sn_erm.deployment_pipeline_user template_editor | Planner | Professional | |
| | Enterprise Release | | Can access the Deployment Pipeline module to view pipelines, phases, and builds. Can also be assigned Deployment Tasks. | task_editor tm_tester | Worker | Professional | |
| | | sn_erm.product_release_manager | Can create and manage Product Releases. | task_editor | Planner | Professional | |



| Suite | Арр | ITBM - Platform Role | Description | Roles Contained within the Platform Role | Legacy License | NY or Later Licensing |
|----------------------------------|------------------|----------------------|--|--|---------------------|-------------------------------------|
| Application Portfolio Management | gement | sn_apm.apm_user | Read/Update Applications. | Applications. report_user, pa_viewer, certification, cmdb_query_builder_read | | Application Portfolio Management |
| | Aana | sn_apm.apm_read | Read Applications. | pa_viewer, cmdb_read | n/a | Business Stakeholder |
| | tion Portfolio P | sn_apm.apm_admin | Administer data entities such as – indicators, application category groups, categories, families, TPM risk parameters etc. | sn_apm.apm_user, certification_admin, assessment_admin | Planner | Application Portfolio Management |
| | Applica | sn_apm.apm_analyst | Create/Update/delete Applications and Create/update/delete APM Programs and targets. | sn_apm.apm_admin, treemap_user | Analyst | Application Portfolio Management |
| | Business | business_planner | Create/update/delete business capabilities, Business Units, Strategies, Goals. | | No License Required | No License Required |

Important Notes:

Regarding *itil in the "Roles Contained" column - this indicates that things like "relate incidents to a project, task", etc. will require an ITSM fulfiller license. Prior to Jakarta, the role was nested in the ITBM contains role in previous releases and has since been removed. If you are a customer that started using a role that had the itil role and are having compliance issues please reference KB0695138 on Community to remove it. This KB also contains a Script that can be used to do this automatically, please test in a development environment before running in Production.

Regarding idea_manager* in the "Roles Contained" column - This role is only added when the Innovation Management plugin is installed and requires ITBM Pro Licensing.

The 'pps_resource' user & 'business_planner' roles no longer require a ITBM license to be used. Requestors + can be assigned this role.



| Time Card v2 | ITBM Standard | ITBM Professional | Application Portfolio Management | Business Stakeholder | Agile Team | ITBM Worker | ITBM Planner | ITBM Analyst | |
|-------------------|--------------------------------|--|-------------------------------------|--------------------------------|-----------------------|---------------------------------|------------------------------------|---------------------------|--|
| timecard_admin | Time Card v2 Roles + | ITBM Standard & Agile Team Roles + sn_apm.apm_admin sn_apm | | sn_apm.apm_read | scrum_admin | it_demand_user | ITBM Worker Roles + | ITBM Planner Roles + | |
| timecard_approver | budget_admin | idea_manager_professional | sn_apm.apm_analyst | sn_ppm_finance_read | scrum_master | it_project_portfolio_user | budget_admin | cost_transparency_admin | |
| timecard user | budget analyst | investment admin | sn apm.apm read | sn ppm read | scrum product owner | it project user | budget analyst | cost transparency analyst | |
| _ | budget key owner user | investment planner | sn apm.apm user | sn investment funding read | scrum release planner | release v2 user | budget_key_owner_user | datamart admin | |
| | budget_owner | investment user | cost_transparency_admin | sn roadmap plng.roadmap editor | scrum sprint planner | rm defect admin | budget owner | service charging analyst | |
| | cf comment admin | safe admin | cost transparency analyst | | scrum story creator | rm enhancement admin | cost transparency user | sn apm.apm analyst | |
| | cf feedback admin | safe product owner | cost transparency user | | scrum story editor | rm scrum task admin | financial analyst | | |
| | idea admin | safe_art_user | datamart admin | | scrum team member | safe_scrum_user | it demand manager | | |
| | idea_manager | safe scrum master | financial analyst | | rm scrum task admin | safe story creator | it portfolio manager | | |
| | it_demand_manager | safe_scrum_user | | | scrum_user | safe_story_editor | it_pps_admin | | |
| | it_demand_user | safe_story_creator | | | rm_defect_admin | scrum_admin | it_program_manager | | |
| | it_portfolio_manager | safe_story_editor | | | rm_enhancement_admir | scrum_master | it_project_manager | | |
| | it_pps_admin | safe_portfolio_user | | | cmdb_read | scrum_product_owner | itfm_plan_analyst | | |
| | it_program_manager | sdlc_manager | | | tm_tester | scrum_release_planner | itfm_planner | | |
| | it_project_manager | sdlc_user | | | tm_test_manager | scrum_sprint_planner | it_rate_model_admin | | |
| | it project portfolio user | sn erm.deployment pipeline manager | | | rm scrum task admin | scrum story creator | rate model user | | |
| | it project user | sn erm.deployment pipeline user | | | | scrum story editor | release v2 admin | | |
| | pps resource | sn erm.enterprise release manager | | | | scrum team member | resource manager | | |
| | it rate model admin | sn erm.enterprise release user | | | | scrum user | resource user | | |
| | rate model user | sn erm.product release manager | | | | sdlc admin | safe admin | | |
| | release_v2_admin | sn_test_management.test_manager | | | | sdlc_manager | safe_product_owner | | |
| | release v2 manager | sn test management.tester | | | | sdlc user | safe program user | | |
| | release v2 user | | | | | showback user | safe scrum master | | |
| | resource_manager | | | | | sn collab common.collab user | safe portfolio user | | |
| | resource user | | | | | sn erm.deployment pipeline user | service charging owner | | |
| | sn collab common.collab owner | | | | | sn erm.enterprise release user | sn apm.apm admin | | |
| | sn collab common.collab user | | | | | sn test management.tester | sn apm.apm user | | |
| | timecard admin | | | | | timecard user | sn collab common.collab owner | | |
| | timecard_admin | | | | | timecard_user timeline user | sn erm.deployment pipeline manager | | |
| | tsp1-5 demand manager | | | | | tm tester | sn erm.enterprise release manager | | |
| | tsp1-5 demand user | | | | | tsp1-5 demand user | sn erm.product release manager | | |
| | tsp1-5 portfolio manager | | | | | tsp1-5 project portfolio user | sn test management.test manager | | |
| | tsp1-5 pps admin | | | | | | timecard admin | | |
| | tsp1-5 program manager | | | | | | tm test manager | | |
| | tsp1-5_project_manager | | | | | | rm_scrum_task_admin | | |
| | tsp1-5_project_portfolio_user | | | 1 | | | timecard_approver | | |
| | tsp1-5_rate_model_admin | | | | | | tsp1-5_demand_manager | | |
| | tsp1-5_timeline_admin | | | | | | tsp1-5_portfolio_manager | | |
| | tsp1-5_timeline_user | | | | | | tsp1-5_pps_admin | | |
| | sn_roadmap_plng.roadmap_admin | | | | | | tsp1-5_program_manager | | |
| | sn_roadmap_plng.roadmap_editor | | | | | | tsp1-5_project_manager | | |
| | sn_roadmap_plng.roadmap_viewer | | | | | | tsp1-5_rate_model_admin | | |
| | | | | | | | tm_test_manager | | |
| | | | | | | | tm_tester_manager | | |

Important Notes:
The 'pps_resource' user & 'business_planner' roles no longer require a ITBM license to be used. Requestors + can be assigned this role.



| Time Card v2 | | Standard | | Professional | | Application Portfolio Management | | Business Stakeholder | | Agile Team | |
|--------------------------|---|--------------------------------------|--|--------------------------------------|---|--|---|------------------------|--|--------------------------------------|---|
| Plug-in(s) | Application(s) Installed | Plug-in(s) | Application(s) Installed | Plug-in(s) | Application(s) Installed | Plug-in(s) | Application(s) Installed | Plug-in(s) | Application(s) Installed | Plug-in(s) | Application(s) |
| | | Time Card v2 Plug-ins + | | ITBM Std. & Agile Team Plug-ins + | | | | | | | |
| com.snc.pa.time_card | Performance Analytics - Content Pack - Time Card Management | com.snc.ppm_strategic_spend_tracking | Strategic Spend Tracking (store app) | com.sn_pliannedtask_cmn | Planned Task Common | Application Portfolio Management (com.snc.apm) | APM, Demand Core, APM Predictive Intelligence, Business Planner, APM Parformance Analytics content packs for Problem & Change Mgmt | com.snc.pmo_read_roles | Read only roles for PPM Standard | com.snc.sdlc.scrum.pp | Agile Development |
| com.snc.time_card | Time Card Management | com.snc.demand_management | Demand Management | com.sn_safe_dashboards | Performance Analytics Content Pack for Essential SAFe | Application Portfolio Management - ATF Tests (com.snc.apm.atf) | APM-ATF Tests | com.snc.apm_read_roles | Read only roles for Application Portfolio Management | com.snc.sdlc | Software Development Lifecycle (SDLC) |
| com.snc.time_card_portal | Time card portal | com.snc.financial_planning | Financial Planning | com.sn_safe_progress | Work Progress Status for SAFe | Read only roles for Application Portfolio Management (com.snc.apm_read_roles) | APM Read only role (for Business Stakeholder) | | | com.snc.sdlc.agile.2.0 | Agile Development 2.0 |
| com.snc.timesheet_mobile | Mobile Time Sheets | com.snc.innovation_management | Innovation Management | com.sn_scrum_common | Scrum Common | | | | | com.snc.sdlc.agile 2.0.atf | Agile Development 2.0 - ATF Tests |
| | | com.snc.pa.pmo_dashboards | Performance Analytics - Content Pack - PPM Standard | com.sn_scrum_dashboards | Performance Analytics Content Pack for Agile 2.0 | | | | | com.snc.sdlc.agile.2.0.common | Agile Development 2.0 - Common |
| | | com.snc.ppm_collaboration | PPM Collaboration | com.sn_scrum_progress | Work Progress Status for Agile Teams | | | | | com.snc.sdlc.agile.mobile | Agile Development v2 |
| | | com.snc.financial_planning_pmo | PPM standard | com.snc.app_ado_integration | Microsoft Azure DevOps Integrations Common | | | | | com.snc.sdlc.agile.multi_task | Agile Development - Unified Backlog |
| | | com.snc.program_management | Program Management | com.snc.app_agile_ado_integration | Microsoft Azure DevOps Integration for Agile Development | | | | | com.snc.sdlc.agile.multi_task | Agile Development - Unified Backlog |
| | | com.snc.ppm_teamspace_1 | Project Management TeamSpace 1 | com.snc.app_ag8e_integration_commons | Agile Integrations Commons | | | | | com.snc.sdlc.agile.multi_task.common | Agile Development - Unified Backlog - Common |
| | | com.snc.ppm_teamspace_2 | Project Management TeamSpace 2 | com.snc.app_agile_jira_integrations | Atlassian Jira Integration for Agile Development | | | | | com.snc.sdlc.ranking | Global Ranking Application |
| | | com.snc.ppm_teamspace_3 | Project Management TeamSpace 3 | com.snc.app_common_integrations | Work Item Integrations Common | | | | | com.snc.sdlc.scrum | SDLC - SCRUM |
| | | com.snc.ppm_teamspace_4 | Project Management TeamSpace 4 | com.snc.app_jra_integrations | Atlassian fira Integrations Common | | | | | com.snc.sdlc.scrum.ppm_int | SDLC Scrum PPM Integration |
| | | com.snc.ppm_teamspace_5 | Project Management TeamSpace 5 | com.snc.idea_manager_dashboard | Idea Manager Dashboard | | | | | com.snc.test_management.2.0 | Test Management 2.0 |
| | | com.snc.project_management_v3 | Project Management | com.snc.investment_planning | Investment Funding | | | | | com.snc.test_migration_v1_v2 | Test Management 2.0 - Data Migration |
| | | com.sn_store_ppm.mobile | Project Status Report | com.snc.investment_planning_pmo | Investment funding for PPM | | | | | com.sn_scrum_dashboards | Performance Analytics Content Pack for Agile 2.0 |
| | | com.snc.release_management_v2 | Release Management | com.snc.ppm_virtualagent | Virtual Agent for PPM | | | | | | |
| | | com.snc.resource_management | Resource Management | com.snc.sdic.portfolio_safe | Agile - Scaled Agile Framework - Portfolio SAFe | | | | | | |
| | | com.snc.ppm_scenario_planning | Scenario Planning for PPM | com.snc.sdic.safe | Agile - Scaled Agile Framework - Essential SAFe | | | | | | |
| | | com.sn_align_ws | Alignment Planner Workspace | com.snc.sdic.safe.atf | Agile - Scaled Agile Framework - Essential SAFe - ATF Tests | | | | | | |
| | | sn_roadmap | Roadmap UI Builder Component | com.snc.sdlc.safe.multi_task | Agile - Scaled Agile Framework - Unified Backlog | | | | | | |
| | | | | com.snc.sdlc.scrum.ppm_int | SDLC Scrum PPM Integration | | | | | | |
| | | | | com.snc.sdlc.scrum_program | Scrum Programs | | | | | | |
| | | | | com.snc.test_mgmt.ppm_int | Test Management PPM Integration | | | | | | |
| | | | | | | | | | | | |