



EXECUTIVE SUMMARY

Snagmaster has been providing proven project productivity improvements and proven Return on Investment, typically within 6 weeks as demonstrated in **Australian ROI Case Study available on request.**

Since its release in 2005 it has been used on over 2000 projects worldwide to provide all aspects of Quality Management including Quality Assurance and Quality Control for construction, completions, handover on any type of construction projects.

The incorporated and unique workflow capabilities ensure all parties involved in project can collaborate on required aspects in a timely manner in the field offline or online via the project portal.

Project personnel can create and work on any allocated Checklist, electronic forms and any issues offline in field and incorporate all required information such as photos, attached documents / specifications, plans & drawings, GPS, signatures and more.

All Snagmaster capability & modules are available via the one subscription license & includes;

- Unlimited Users (Main Contractor, Client, Certifiers, Designers, Architects, Subcontractors & any other agents involved in project)
- Unlimited Construction Plans/Drawings
- Unlimited Access to Project Portal
- Unlimited downloads or uploads (synchronisation) between phone/tablet Field APP & server
- Unlimited Support
- All new Snagmaster Productivity Enhancements & Software Maintenance releases

Due to the cloud-based architecture, no IT resources are required and projects can be customised and configured within 3 to 5 business days ready for project use by all parties.

Detailed information and core features can reviewed at www.snagmaster.com.au

CURRENT & RECENTLY COMPLETED MAJOR PROJECTS IN AUSTRALIA INCLUDE;

- Melbourne Airport Upgrade (CPBC)
- Western Sydney International Airport (CPBC)
- 360 Queen St (Hutchinson Builders)
- Royal Prince Alfred Hospital Redevelopment (CPBC)
- Nepean Hospital Redevelopment Stage 2 (CPBC)
- Pitt St North OSD (CPBC)
- Logan Hospital Expansion Stages 1 & 2 (John Holland Group)
- Warringah Freeway Upgrade (CPBC / Downer JV)
- Sydney Metro City & South West (MTR Australia & Alstom)
- Robertson Barracks Redevelopment (DCOH)
- Parramatta Light Rail Project (Transport for NSW)
- University of Southern Qld Morton Bay Stage 2 (Badge Construction)
- Monash Freeway Upgrade Stage 2 (Major Roads Project Victoria & CPBC)
- Campbelltown Hospital Redevelopment Stage 1 & 2 (CPB Contractors)
- Gold Coast Airport Southern Expansion (Lendlease)
- Cairns Convention Centre Expansion (Lendlease)
- New Performance Art Venue Brisbane (Lendlease)
- Western Roads Upgrade Victoria (Netflow / Ventia)



REFERENCES

Snagmaster has a proven ROI & below are details of Directors, Project Managers, Completions Managers and QA Managers from different companies who can provide their own views on Snagmaster capability.

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<p>Michael Sherman Senior Development Manager, Toga Group 0431 359 551 msherman@toga.com.au</p>	<p>Chris Dove Managing Director, Dove Passive Fire 0427 793 129 christopher@dovepassivefire.com.au</p>



ACONEX & SNAGMASTER

Many companies also selected Snagmaster over Aconex field manager due to its ease of use, range of features, extensive and varied workflow capabilities and extensive reporting capabilities.

The unique Client workflow layer allows Main Contractor/Consortium to easily let its Client &/or their certifiers & Architects to easily raise issues for review by them and decide to issue to appropriate Subcontractor to action issue. Client team can easily self-track activity and sign off on completion. **No competitors' solution has similar capability.**

Snagmaster also does away with paper trails as all Checklists, ITPs & Electronic Forms (Permits, Observations, Inspections etc) can be issued to Subcontractor for their action via Snagmaster App in field or via portal.

Appendix 2 shows a detailed comparison between Snagmaster and Aconex FM.

Snagmaster can integrate to systems such as Aconex and we have done on other systems such as Teambinder and Microsoft Active Directory and Microsoft Power BI.

The following summary describes **Snagmaster benefits** to different managers involved with construction projects.

BENEFITS - CONSTRUCTION MANAGER / SITE ENGINEERS

- Increased Manager time onsite leads to better job e.g. permits issued in-situ. Manager does not need to be at desk to produce permits / forms / lists / NCRs etc
- Snagmaster stores photos with auto capture of GPS coordinates and watermarks them with project ID, location, username, date & time
- No paper printing - time and materials saving
- Evidence backup - photos, signatures, plan locations, GPS co-ordinates
- Better quality of completed Assurance Checklists (contemporaneous photos)
- Better safety or proof thereof via mandatory photos for any permits and WHS issues
- No chasing of subcontractors as all information & evidence is easily to hand
- Easy to use system. Existing users train new users

BENEFITS - QUALITY MANAGER

- Speed of access to information
- Better quality of information
- Ability to enforce collection of key data (e.g. photos of work area on permits, NCR etc)
- Reduced travel as data is online 24-7 no need to visit site to get info
- Ability to remote audit
- "keep an eye" on quality as job progresses via Trackers, weekly summary or ad-hoc reports

BENEFITS - QUANTITY SURVEYOR

- Contra charge (Back Charging) feature available on snags and forms
- Contras noted by Site Managers at the time of event
- Results and status viewable at project and company level
- Easily negotiate and recoup retentions on damage and clean ups etc.
- Evidence readily available and automatically added to charge-sheets
- Automated charge-sheet production and negotiating record
- Time saving in searching, sifting and collating evidence



BENEFITS - ADMINISTRATORS

- Master list of subcontractors (allows benchmarking)
- Master list of work-packages
- Central management of form designs (auto-publish to projects)
- Create and manage users
- Cloning of project templates makes adding new projects fast and straight-forward (includes pre-population of packages, forms and checklists)
- Cloning a delivered project means instant setup of Aftercare portal
- One click archival. Structured folder sets containing Excel register with links to PDFs of snags/forms/checklists plus all original photos and attachments

BENEFITS - DIRECTORS

- Overview of all projects
- Slice and dice the business via divisions and groups or geography
- Global NCR list with cost graphs / root-cause analysis
- Global snags list by snag
- KPI dashboard
- Subcontractor benchmarking
- Analysis of snags by package, category1, category2 etc
- Export to Excel or pump to other systems e.g. PowerBI
- Better client relationships via giving them access to the system (as limited client user)

BENEFITS - CLIENTS / CERTIFIERS / ARCHITECTS

- No-cost controlled access to system (App & Portal) to create snags
- Central list of client items and m/c items in the one portal - avoids confusion and dispute
- Greater involvement = better relationship
- Access not limited to clients but also client agents
- Client can email download their items to Excel & PDF at any time
- Production project structure can be cloned to create "Aftercare" portal to record and manage post-handover items

BENEFITS - SUBCONTRACTORS

- No-cost controlled access to system (App & Portal) to review issues raised and complete any allocated Checklists or Electronic Forms
- Central list of all allocated items in the one portal - avoids confusion and dispute
- Greater involvement = better relationship
- Subcontractors can clearly see items awaiting their attention and action
- Easy and consistent way to report back as actions taken and ability to include proof
- Subcontractors can email or download their items to Excel & PDF at any time for team members



ABOUT SNAGMASTER

My company Hyperman Services is the exclusive distributor for Snagmaster Project Productivity Solution in Australia & New Zealand.

Our company provides consulting, implementation, training & other services to support the successful adoption & ongoing use of Snagmaster Project Productivity Solution throughout project life.

Snagmaster is a proven, effective & unique project productivity solution designed to simplify, streamline & manage the quality, defect, completion & handover process of any construction project.

To date it has been used on projects including, commercial & residential multi story buildings, public & private hospitals, railways, onshore/offshore wind farms, BESS, major roads, bridges, & viaducts, airport terminals, data centres, residential villages, correction centres, heavy rail, light rail, metro rail & more.

In Australia since its debut in 2015 it has been used on over 800 projects and has a proven Return of Investment within 6 weeks (**Australian Case Study available on request**)

In field users can operate fully offline.

Snagmaster is based on secure cloud services and offered via a subscription model allowing for rapid deployment without the requirement for any infrastructure or capital outlay.

Snagmaster can integrate to systems such as Aconex and we have done on other systems such as Teambinder and Microsoft Active Directory and Microsoft Power BI.

Snagmaster is the only quality/defect/project management solution that offers;

- **Different workflow for roles** of Client (Developer, Certifiers), Main Contractors & Subcontractors & scheduled reminders of outstanding tasks allowing full collaboration between all parties involved in ensuring Quality outcomes & improving productivity
- Ability to provide different roles and workflows which ensures parties only see information allowed and pertinent to their roles
- **Powerful real time filtering, reporting & charting.**
- Uses construction drawings/plans to capture defect/issues whilst in field using **iPad/iPhone/Android devices** working **offline or online**
- Pinpoint issue on drawing/plan in field & ability to take & annotate photos, annotate plan/drawing & do sketches
- Assign Room Schedule Schemes to Location Labels
- **Automatically capture GPS coordinates** of Snags (defects/issues) and then view snags on a map and get driving /walking directions
- **Easy to use & powerful checklists & ITP with Hold Points capability in the field and auto notification to next trade as ITP accepted & closed (includes photos & signature capture)**
- **Easy to use electronic forms capability in the field (ie Permits, Safety Observations, Clean up Notices, Site Inspections, etc) - (includes photos & signature capture)**
- Contractor Back Charge capture in field & easy reporting (ie were subbie is cause of damage/cost to rectify)
- 360 degree format support for photos
- BIM support and 3D BIM Model Viewer in field
- Secure and open architecture for further integration into systems such as Team Binder, Aconex, Microsoft Business Intelligence, Single Sign On, GIS Systems etc
- Ability to import existing issues list into Snagmaster for whole of project reporting



Here are some additional proof points that support the business case for Snagmaster;

- ✓ Proven ROI
- ✓ Proven solution in marketplace including Australia, Europe, Middle East & UK.
- ✓ Rapid Deployment
- ✓ Intuitive functionality allows Client, Principal Contractor, Project Consultants, Agencies, staff and contractors to easily and securely use
- ✓ Improved project and sub-contractor management leading to more productivity, lower expenses and more profit
- ✓ Provides extensive reporting & charting capabilities
- ✓ Competitive tool allowing your company to be more proactive and responsive to your clients and be seen as a leader in the marketplace
- ✓ Versatile providing support for post-handover and extensive auditing capability
- ✓ **No infrastructure capital or IT resources required or asset requirement for solution**
- ✓ **Subscription model = Operating expense**

MAJOR AUSTRALIAN PROJECTS INCLUDE;	
HOSPITAL & RESEARCH CENTRES	MAJOR ROAD PROJECTS
• Royal Prince Alfred Hospital Redevelopment (CPBC)	• Toowoomba Second Range Crossing (Nexus Delivery Acciona / Ferrovial Joint Venture)
• Nepean Hospital Redevelopment Stage 2 (CPBC)	• Warringah Freeway Upgrade (CPBC)
• Campbelltown Hospital Redevelopment Stage 1 & 2 (CPBC)	• Monash Freeway Upgrade Stage 2 (MRPV – CPBC)
• Logan Hospital Expansion Stage 1 (John Holland Group)	• Fitzsimons Lane Upgrade (MRPV – BMD Constructions)
• Logan Hospital Expansion Stage 2 (John Holland Group)	• Western Roads Upgrade (Netflow/Ventia – VicRoads)
• Queensland Childrens Hospital (Lendlease)	• Pacific Highway Upgrade -Warrell Creek to Nambucca Heads (Pacifico – Acciona/Ferrovial JV)
• Mater Whitty Building Project (Mater Health Services – Cockram Constructions)	• M80 Upgrade - Sunshine to Calder including EJ Whitten Bridge upgrade (VicRoads – Fulton Hogan)
• Royal Hobart Hospital (True Seal)	• City Tullamarine Highway Widening (VicRoads – Lendlease)
• Mater Private Hospital Springfield (Watpac Constructions)	• Northern Beaches Connectivity Upgrade (Ferrovial)
• Monash Children’s Hospital (Lendlease)	•
• Frankston Hospital Redevelopment (True Seal)	MAJOR METRO & RAIL PROJECTS
• Ballarat Hospital (True Seal)	• Parramatta Light Rail Stage 1 (Transport for NSW)
• Victorian Heart Hospital (True Seal)	• Sydney Metro City to South West (MTR Australia)
• LaTrobe Regional Hospital (Dove Passive)	• Sydney Metro City to South West (Alstom)
• Footscray Hospital (Dove Passive)	• Melbourne Metro Tunnel Stations (Dove Passive)
• Cairns Hospital (Lendlease)	• Sydney Light Rail Project (Acciona/Alstom - TfNSW)
• Palmerston Regional Hospital (Lendlease)	• Footscray - Deer Pk Regional Rail Link (Belfour Beatty Thesis)
• CSL Banksia (True Seal)	• Level Crossing Removal Project (MTM – CPB Contractors)
MAJOR INFRASTRUCTURE DEVELOPMENTS PROJECTS	
• Robertson Barracks Base Improvement Project (DCOH)	• Canadian Solar e-Storage BESS Projects
• 360 Queen (Hutchinson Builders)	• University of Newcastle (Lipman Group)
• Cairns Convention Centre Expansion (Lendlease)	• New Performance Art Venue Brisbane (Lendlease)
• Pitt St North OSD (CPB Contractors)	• MADE Marrickville – Toga Group
• Australia 108 (True Seal)	• Shangri La - 308 Exhibition St (True Seal)
• Geelong Arts Centre (Dove Passive)	• Darwin Youth Justice Centre (NT Govt)
• Wyndham Law Courts (Dove Passive)	• IGLU Student Residence (True Seal)
• Mell 11 - Data Center (Dove Passive)	• Melbourne Tullamarine Airport MLS (CPBC)
• Hickory Data Center (True Seal)	• Webb Dock Terminal Port Melbourne (CPBC)
• Marvel Stadium Upgrade (True Seal)	• Parliament House Square – Hobart
• South Coast Correctional Centre (NSW)	• Victorian Parliament House (True Seal)
• RNA 25 King (Lendlease)	• Bendigo Law Courts (True Seal)